

Nanjing SiSiB Silicones Co., Ltd.  
Add: Guanghua Science & Technology Industrial Zone,  
No. 104 Guanghua Road, Nanjing 210007, China  
Phone: +86-25-5859-9930, 9931, 9932  
Fax: +86-25-5859-9935  
Email: sales@SiSiB.com  
www.SiSiB.com www.PCC.asia

# SiSiB SILICONES

*A part of SINOPCC group.*



*Silicone Rubbers*

**SiSiB SILICONES**  
*A part of SINOPCC group.*



**SISIB**  
**SILICONES**  
西斯博有机硅

# SiSiB SILICONES

SiSiB SILICONES, a part of SINOCC group established in 1989, is one of the leading manufacturers in silicone industry, focusing on the development and manufacture of silanes and silicones.

Strategically positioned within the silicone supply chain, SiSiB SILICONES provide a comprehensive range of performance-enhancing products and solutions to meet the need of customers. These include silanes and siliconates, silicone fluids, silicone emulsions, silicone rubber, silicone gum and fumed silica.

Today our products are used successfully throughout the world in the adhesives and sealants, agriculture, artificial marbles, building protection, coatings & paints, fillers & pigments, foundries, fiber glass, leather & textile, lubricants, personal care, pharmaceuticals, plastics & thermoplastics, polyurethane foam, rubber & tyre, wires & cables.

## ■ Why select SiSiB SILICONES?

- Strong silane and silicone manufacturing capabilities built over 30+ years history.
- Flexible manufacturing facility able to handle kilograms to thousands of tons per years.
- Rapid and professional process development and scale-up capabilities.
- Offer tailored options while adhering to high quality and safety standards.



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# SiSiB SILICONES

# FSR

## Benefit

- Superior extreme (low-high) temperature performance
- It has very good oil, fuel and liquid resistance.
- It is useable for molding, extrusion and calendaring processes.
- Typical applications include aerospace fuel system components, diaphragms, gaskets, hose lining, seals and O-rings.

## FSR - General Purpose Fluorosilicones

Properties / Product	FSE9230	FSE9240	FSE9250	FSE9260	FSE9270	FSE9280
Hardness(Shore A)	30	40	50	60	70	80
Tensile strength (MPa)	8.5	10.0	10.5	9.5	9.0	8.0
Elongation at break (%)	350	375	350	300	200	165
Tear strength Crescent Type (KN/m)	21	25	25	22	20	18
Permanent Compression set (%) (22h@180°C)	15	12	13	14	15	16
Volume Swell in ASTM Reference	22	20	19	18	18	18
Fuel B, (70h@23°C) (%)						

Curing agent: 0.55% 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane (DHBP).  
Curing conditions: 15min/171°C, post-curing: 4h/200°C in hot air

# FSR

## FSR - High Tear Strength Fluorosilicones

Properties / Product	FSE9330	FSE9340	FSE9360	FSE9380
Hardness(Shore A)	30	40	60	80
Tensile strength (Mpa)	9.5	11.0	10.5	9.0
Elongation at break (%)	350	400	350	250
Tear strength Crescent Type(KN/m)	40	45	42	30
Permanent Compression set (22h@177°C)	14	12	14	16
Volume Swell in ASTM Reference	22	21	20	20
Fuel B, (70h@23°C) (%)				

## FSR - Low Compression Set Fluorosilicones

Properties / Product	FSE9830	FSE9840	FSE9860	FSE9880
Hardness (Shore A)	30	40	60	80
Tensile strength (Mpa)	9.0	10.0	10.5	9.0
Elongation at break (%)	300	350	300	175
Tear strength (Mpa)	20	25	25	18
Permanent Compression set (%) (22h@180°C)	8	7	8	9
Volume Swell in ASTM Reference	22	20	19	19
Fuel B, (70h@23°C) (%)				



# SiSiB SILICONES

# FSR

## FSR - Economic General Purpose Fluorosilicones (Copolymer)

Properties / Product	FSE9130	FSE9140	FSE9160	FSE9180
Hardness(Shore A)	30	40	60	80
Tensile strength (Mpa)	6.0	7.5	7.0	5.5
Elongation at break (%)	350	400	250	175
Tear strength Crescent Type(KN/m)	20	25	25	18
Permanent Compression set (22h@177°C)	18	15	16	18
Volume Swell in ASTM Reference	135	130	125	125
Fuel B, (70h@23°C) (%)				

## FSR - Fluorosilicones (Homopolymer) for Extrusion

Properties / Product	FSE9750	FSE9760	FSE9780
Hardness(Shore A)	50	60	80
Tensile strength (Mpa)	9.0	9.0	7.0
Elongation at break (%)	300	350	300
Tear strength Crescent Type(KN/m)	20	25	25
Permanent Compression set (22h@177°C)	18	20	25
Volume Swell in ASTM Reference	22	20	19
Fuel B, (70h@23°C) (%)			

# GUM



## Methyl Silicone Gum

Product	Appearance	Molecular Weight (x10 <sup>4</sup> )	Volatile (%)
SiSiB® SG2010	Transparent	50-90	2.0 Max.

## Methyl Vinyl Silicone Gum

Product	Appearance	Terminated group	Molecular Weight (x10 <sup>4</sup> )	Vinyl content (%)	Volatile (%)
SiSiB® SG6051	Transparent	Methyl	45-80	0.07-0.12	2.0 Max.
SiSiB® SG6061	Transparent	Vinyl	45-80	0.07-0.12	2.0 Max.
SiSiB® SG6052	Transparent	Methyl	45-80	0.13-0.20	2.0 Max.
SiSiB® SG6062	Transparent	Vinyl	45-80	0.13-0.20	2.0 Max.
SiSiB® SG6053	Transparent	Methyl	45-80	0.21-0.24	2.0 Max.
SiSiB® SG6063	Transparent	Vinyl	45-80	0.21-0.24	2.0 Max.
SiSiB® SG6054	Transparent	Methyl	45-80	0.25-0.49	2.0 Max.
SiSiB® SG6064	Transparent	Vinyl	45-80	0.25-0.49	2.0 Max.
SiSiB® SG6055	Transparent	Methyl	45-70	0.50-0.79	2.0 Max.
SiSiB® SG6065	Transparent	Vinyl	45-70	0.50-0.79	2.0 Max.
SiSiB® SG6056	Transparent	Methyl	45-70	0.80-1.79	2.0 Max.
SiSiB® SG6066	Transparent	Vinyl	45-70	0.80-1.79	2.0 Max.
SiSiB® SG6057	Transparent	Methyl	45-60	1.80-5.00	2.0 Max.
SiSiB® SG6067	Transparent	Vinyl	45-60	1.80-5.00	2.0 Max.
SiSiB® SG6058	Transparent	Methyl	45-80	0.03-0.06	2.0 Max.
SiSiB® SG6068	Transparent	Vinyl	45-80	0.03-0.06	2.0 Max.

## Fluoro Silicone Gum

Product	Type	Appearance	Molecular Weight (10 <sup>4</sup> )	Vinyl content (mol %)	Volatile (%)
SiSiB® FSG9701	homo-polymer	Transparent	~50	0.3%	<2.0%
SiSiB® FSG9702	homo-polymer	Transparent	~80	0.3%	<2.0%
SiSiB® FSG9703	homo-polymer	Transparent	~100	0.3%	<2.0%
SiSiB® FSG9704	homo-polymer	Transparent	~120	0.08%	<2.0%
SiSiB® FSG9711	co-polymer	Transparent	~50	0.3%	<2.0%
SiSiB® FSG9712	co-polymer	Transparent	~70	0.3%	<2.0%
SiSiB® FSG9713	co-polymer	Transparent	~70	0.08%	<2.0%



# SiSiB SILICONES



## Benefit

- Industrial and food contact formulations
- Excellent processing performance
- Fast cure rate
- Reduced cycle times
- Lower production costs
- Processed by liquid injection molding
- High transparency, strength, good adhesion to glass fiber

## LSR - Kitchen Ware

Application: Various food mold for making cake, chocolate and sugar, etc.

Product	LR1140	LR1150	LR1160	LR1170
Appearance	Transparent	Transparent	Transparent	Transparent
Viscosity (Pa.s)	600-650	600-650	850-950	850-1000
Density (g/cm <sup>3</sup> )	1.08	1.10	1.13	1.16
Hardness (Shore A)	40+/-2	50+/-2	60+/-2	70+/-2
Tensile Strength (MPa)	Min. 9.5	Min. 8.5	Min. 7.5	Min. 7.0
Tear Strength (kN/m)	Min. 32	Min. 30	Min. 30	Min. 25
Elongation (%)	Min. 800	Min. 600	Min. 400	Min. 350
Rebound (%)	Min. 60	Min. 60	Min. 65	Min. 65
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C			

# LSR

## LSR - Baby Care

Application: Baby pacifiers, bottles, baby tableware, breast pump seal ring and baby toys, etc.

Product	LR1220	LR1230	LR1240	LR1250	LR1260	LR1270
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Viscosity (Pa.s)	600-800	750-1000	750-1500	700-900	700-1000	800-900
Density (g/cm <sup>3</sup> )	1.08	1.09	1.10	1.10	1.12	1.13
Light Transmittance (%)	Min. 80	Min. 80	Min. 80	Min. 80	Min. 80	Min. 80
Rebound (%)	Min. 45	Min. 45	Min. 55	Min. 58	Min. 65	Min. 60
Hardness (Shore A)	20+/-2	30+/-2	40+/-2	50+/-2	60+/-2	68+/-2
Tensile Strength (MPa)	Min. 6.5	Min. 8.5	Min. 8.5	Min. 8.5	Min. 8.5	Min. 8.5
Tear Strength (kN/m)	Min. 8.0	Min. 15	Min. 27	Min. 30	Min. 30	Min. 32
Elongation (%)	Min. 950	Min. 880	Min. 600	Min. 500	Min. 450	Min. 440
Compression Set (%)	Max. 25	Max. 25	Max. 25	Max. 25	Max. 25	Max. 25
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C					

## LSR - Baby Care (High Tear Strength)

Application: Baby pacifiers, bottles, baby tableware, breast pump seal ring and baby toys, etc.

Product	LR1340	140°C x 10min		200°C x 2H	140°C x 10min		200°C x 2H
Appearance	Transparent	Transparent		Transparent	Transparent		Transparent
Viscosity (Pa.s)	1000-2000	1000-2000		1000-2000	1000-2000		1000-2000
Density (g/cm <sup>3</sup> )	1.08 ~ 1.12	1.10	1.10	1.08 ~ 1.12	1.1	1.11	1.11
Hardness (Shore A)	38 ~ 42	42	43	38 ~ 42	51	51	51
Light Transmittance (%)	Min. 78	83	83	Min. 78	78	78	78
Rebound (%)	Min. 50	61	62	Min. 50	58	58	58
Tensile Strength (MPa)	Min. 9.1	10.50	10.01	Min. 9.1	10.54	10.04	10.04
Elongation (%)	Min. 600	755	762	Min. 600	646	587	587
Tear Strength (kN/m)	Min. 30	34.6	41.2	Min. 30	39.7	40.2	40.2
Linear Shrinkage (%)	2.0 ~ 3.0	2.11	2.6	2.0 ~ 3.0	2.19	2.5	2.5
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C						

## LSR - Baby Care (Low Volatile)

Application: Baby pacifiers, bottles, baby tableware, breast pump seal ring and baby toys, etc.

Product	LR1530	LR1540	LR1550	LR1560
Appearance	Transparent	Transparent	Transparent	Transparent
Viscosity (Pa.s)	750-1000	750-1500	700-900	700-1000
Density (g/cm <sup>3</sup> )	1.09	1.10	1.10	1.12
Light Transmittance (%)	Min. 80	Min. 80	Min. 80	Min. 80
Rebound (%)	Min. 45	Min. 55	Min. 58	Min. 65
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2
Tensile Strength (MPa)	Min. 8.5	Min. 8.5	Min. 8.5	Min. 8.5
Tear Strength (kN/m)	Min. 15	Min. 27	Min. 30	Min. 30
Elongation (%)	Min. 880	Min. 650	Min. 500	Min. 450
Compression Set (%)	Max. 25	Max. 25	Max. 25	Max. 25
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C			

## LSR - Cable Accessories Terminations/ Joints

Application: Cold shrink terminals, cold shrink insulated pipe, intermediate joint, three finger sleeves, etc. for 35 kv and below.

Product	LR2135	LR2145
Appearance	Grey	Grey
Viscosity (Pa.s)	600-900	600-900
Density (g/cm <sup>3</sup> )	1.10-1.15	1.10-1.15
Hardness (Shore A)	36-40	36-42
Tensile Strength (MPa)	Min. 8.5	Min. 8.5
Elongation (%)	Min. 760	Min. 740
Tear Strength (kN/m)	Min. 30	Min. 35
Compression Set at 120°C 300% tensile after 24Hours (%)	Max. 8	Max. 8
Volume Resistivity (Ω.cm)	Min. 1.0 X10 <sup>15</sup>	Min. 1.0 X10 <sup>15</sup>
Dielectric Constant	Max. 3.0	Max. 3.0
Dissipation Factor	Max. 0.003	Max. 0.003
Tracking Resistance	1A3.5	1A4.5
Dielectric Strength (KV/mm)	Min. 23	Min. 23
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C	

## LSR - Cable Accessories, High Voltage Insulating

Application: Cable accessories, terminals and intermediate joint for 110 kv and above.

Product	LR2240
Appearance	Grey or Transparent
Viscosity (Pa.s)	80-100
Density (g/cm <sup>3</sup> )	1.08-1.12
Hardness (Shore A)	40-44
Tensile Strength (MPa)	Min. 7
Elongation (%)	Min. 420
Tear Strength (kN/m)	Min. 18
Volume Resistivity (Ω.cm)	Min. 1.0 X10 <sup>15</sup>
Dielectric Constant	Max. 3.0
Dissipation Factor	Max. 0.003
Tracking Resistance	1A4.5
Dielectric Strength (KV/mm)	Min. 23
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C

## LSR - Cable Accessories, Semi-conductive

LR2335: Semi conductive stress cone, shielding of intermediate joint for 35 kv and below.

LR2440: Semi conductive stress cone, shielding of intermediate joint for 110 kv and below.

Product	LR2335	LR2440
Color	Black	Black
Hardness (Shore A)	36 ~ 42	36 ~ 42
Tensile Strength (MPa)	Min. 6.5	Min. 6.0
Elongation (%)	Min. 640	Min. 600
Tear Strength (kN/m)	Min. 28	Min. 20
Compression Set at 120°C 300% tensile after 24 Hours (%)	Max. 12	
Volume Resistivity (Ω.cm)	Max. 100	Max. 100
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C	



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## LSR - Insulator & Arrester

Application: Suspension and long rod insulators and hollow core insulators / Surge arresters

Product	RTV2531	LR2535	LR2540	LR2540FR	LR2545
Appearance	Light grey	Light grey	Light grey	Light grey	Light grey
Mix Ratio	10:1	1:1	1:1	1 : 1	1 : 1
Viscosity A (Pa.s)	20	30-40	40-70	40-70	70-90
Viscosity B (Pa.s)	1-3	30-40	40-70	40-70	70-90
Mixed Viscosity (Pa.s)	15-21	30-40	40-70	40-70	70-90
Curing Initiation Temperature (°C)	--	105	105	105	105
Pot life @ 23°C	70 Min	2 Days	2 Days	2 Days	2 Days
Density (g/cm <sup>3</sup> )	1.04-1.14	1.03-1.13	1.03-1.13	1.03-1.13	1.03-1.13
Hardness (Shore A)	27-35	33-38	38-43	38-43	44-50
Tensile Strength (MPa)	5.5	Min. 6	Min. 6	Min. 7	Min. 7.2
Elongation (%)	450	Min. 400	Min. 300	Min. 380	Min. 440
Tear Strength (kN/m)	Min. 10	Min. 11	Min. 10	Min. 12	Min. 15
Dielectric Strength (1mm-sheet) (KV/mm)	Min. 22	Min. 23	Min. 23	Min. 23	Min. 23
Volume Resistivity (Ω.cm)	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>
Permittivity (50Hz)	2.8-3.0	2.8-3.0	2.8-3.0	2.8-3.0	2.8-3.0
Dissipation Factor (50Hz)	0.0016	0.0016	0.0016	0.0016	0.0016
Arc Resistance	Min. 300s	Min. 300s	Min. 300s	Min. 300s	Min. 300s
Tracking Resistance	1A3.5	1A4.5	1A4.5	1A4.5	1A6.0
Flammability	FV 1	FV 0	FV 1	FV 0	FV 0
Processing	Casting	Injection	Injection	Injection	Injection
Curing condition	10 minutes at 165°C				

# LSR

## LSR - Insulation Potting

Application: Casting and sealing cable joint, branch and connection boxes, and all kind of electrical equipment

Product	LR2620
Appearance	Transparent
Mix Ratio	1:1
Viscosity A (Pa.s)	600-1000
Viscosity B (Pa.s)	600-1000
Mixed Viscosity (Pa.s)	600-1000
Pot life @ 23°C	15-25
Curing Time @ 23°C	30 min
Curing Time @ 50°C	6 min
Curing Time @ 100°C	3 min
Density (g/cm <sup>3</sup> )	0.97
Hardness Penetration Hollow core, 150g (1/100 mm)	160-170
Dielectric Strength (1 mm - sheet) (KV/mm)	23
Volume Resistivity (Ω.cm)	10 <sup>14</sup>
Permittivity 50Hz	2.5
Dissipation Factor 50Hz	0.0002
Surface Resistance (Ω.cm)	10 <sup>14</sup>
Processing	Casting
Curing Condition:	30 minutes at 150°C in circulating air oven.

## LSR for Medical Laryngeal Mask

Application: For making medical device components used inside or outside of human body, such as nasogastric tube, catheter tube, laryngeal mask and etc.

Product	LR3130	LR3140	LR3150	LR3160	LR3170
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent
Density (g/cm <sup>3</sup> )	1.07	1.08	1.10	1.12	1.14
Hardness (Shore A)	28-32	38-42	48-52	58-62	68-72
Viscosity (Pa.s)	600-800	600-800	800-1000	1000-1200	1000-1200
Tensile Strength (MPa)	Min. 7.5	Min. 8.5	Min. 8.5	Min. 8.5	Min. 7.5
Tear Strength (kN/m)	Min. 800	Min. 500	Min. 500	Min. 450	Min. 350
Elongation (%)	Min. 30	Min. 30	Min. 30	Min. 35	Min. 30
Compression Set (%)	Max. 2.3	Max. 2.3	Max. 2.3	Max. 2.2	Max. 2.2
Curing condition	10 minutes at 140°C and post cure 4 hours at 200°C.				



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# LSR

## LSR for Medical Tube

Application: Laryngeal mask tube or various tracheal intubation.

Product	LR3260	LR3270	LR3278
Hardness (Shore A)	60-64	68-70	76-80
Tensile Strength (MPa)	Min. 9	Min. 10	Min. 10
Elongation (%)	Min. 700	Min. 700	Min. 600
Tear Strength (kN/m)	Min. 40	Min. 40	Min. 40
Tensile Set (%)	Max. 5	Max. 5	Max. 7
Rebound (%)	Min. 40	Min. 48	Min. 50
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.		

## LSR for Medical Sacculus

Application: Various medical sacculus

Product	LR3335	LR3335M
Hardness (Shore A)	33-37	33-36
Tensile Strength (MPa)	Min. 9.5	Min. 10
Elongation (%)	Min. 900	Min. 950
Tear Strength (kN/m)	Min. 16	Min. 16
Tensile Set (%)	Max. 3	Max. 3
Rebound (%)	Min. 60	Min. 55
Curing Condition	10 minutes at 140°C and post cure 4 hours at 200°C	

## LSR for Oil -bleeding & Low Compression Set

Application: Automotive cable and connector seals, grommets, gaskets

Product	LR4150	LR4240	LR4250	LR4260	LR4270	LR4330	LR4340
Hardness (Shore A)	47-52	38-42	47-52	57-62	65-70	28-32	38-42
Appearance	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque
Fluid Content	1.50	2.00	2.00	2.00	2.00	3.00	3.00
Density (g/cm <sup>3</sup> )	1.11-1.14	1.11-1.14	1.11-1.14	1.12-1.15	1.13-1.16	1.11-1.13	1.11-1.13
Viscosity (Pa.s)	1500-2200	1200-1600	1500-2200	2000-3000	2000-3000	1000-1500	1000-1500
Tensile Strength (MPa)	Min. 8.5	Min. 7.5	Min. 8.5	Min. 8.5	Min. 8.0	Min. 7.5	Min. 8.0
Elongation at Break (%)	Min. 480	Min. 460	Min. 450	Min. 400	Min. 350	Min. 650	Min. 560
Tear Strength (KN/m)	Min. 27	Min. 20	Min. 30	Min. 30	Min. 25	Min. 18	Min. 25
Compression Set, NPC	Max. 20	Max. 20	Max. 20	Max. 25	Max. 25	Max. 20	Max. 20
Compression Set	Max. 12	Max. 12	Max. 12	Max. 15	Max. 15	Max. 15	Max. 15

Product	LR4420	LR4430	LR4440	LR4450	LR4620	LR4630
Hardness (Shore A)	20-24	38-42	38-42	48-52	18-22	28-32
Appearance	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque
Fluid Content	4.00	4.00	4.00	4.00	6.00	6.00
Density (g/cm <sup>3</sup> )	1.08-1.11	1.10-1.12	1.12-1.14	1.12-1.14	1.09-1.11	1.11-1.12
Viscosity (Pa.s)	600-1000	1000-1500	1800-2500	1800-2500	600-1000	1000-1500
Tensile Strength (MPa)	Min. 6.0	Min. 7.0	Min. 8.0	Min. 8.0	Min. 6.0	Min. 6.5
Elongation at Break (%)	Min. 750	Min. 650	Min. 550	Min. 450	Min. 700	Min. 700
Tear Strength (KN/m)	Min. 12	Min. 18	Min. 20	Min. 27	Min. 13	Min. 15
Compression Set, NPC	Max. 20	Max. 20	Max. 20	Max. 20	Max. 20	Max. 20
Compression Set	Max. 15	Max. 15	Max. 12	Max. 12	Max. 15	Max. 15
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.					

## LSR for Spark Plug Boots

Application: Spark plug boots, distributor caps and various kinds of boots.

Product	LR4860
Hardness (Shore A)	60
Appearance	Black
Density (g/cm <sup>3</sup> )	1.14
Viscosity (Pa.s)	1200
Tensile Strength (MPa)	Min. 7.0
Elongation at Break (%)	Min. 400
Tear Strength (KN/m)	Min. 25
Compression Set (%)	Max. 20
Flame Retardant (UL94)	V0
Dielectric Strength (1 -mm-sheet) (KV/mm)	23
Volume Resistivity (Ωcm)	2x10 <sup>15</sup>
Dielectric Constant (50 Hz)	2.7
Dissipation Factor (50 Hz)	15 x10 <sup>-4</sup>
Curing condition:	10 minutes at 140°C.

## LSR for General Industrial Purpose Gasket & Parts

Application: Mold and gasket parts for general and auto industries.

Product	LR5120	LR5130	LR5140	LR5150	LR5160	LR5170
Hardness (Shore A)	20-24	28-32	38-42	47-52	57-62	65-70
Appearance	Precoloured	Precoloured	Precoloured	Precoloured	Precoloured	Precoloured
Density (g/cm <sup>3</sup> )	1.08-1.11	1.11-1.13	1.11-1.14	1.11-1.14	1.12-1.15	1.13-1.16
Viscosity (Pa.s)	600-1000	1000-1500	1200-1600	1500-2200	2000-3000	2000-3000
Tensile Strength (MPa)	Min. 6.0	Min. 7.5	Min. 7.5	Min. 8.5	Min. 8.5	Min. 8.0
Elongation at Break (%)	Min. 750	Min. 650	Min. 460	Min. 450	Min. 400	Min. 350
Tear Strength (KN/m)	Min. 12	Min. 18	Min. 20	Min. 30	Min. 30	Min. 25
Compression Set, Post cured (%)	Max. 25	Max. 25	Max. 25	Max. 25	Max. 25	Max. 25
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.					

## LSR for Low Compression Set Gasket & Parts

Application: Mold and gasket parts for general and auto industries.

Product	LR5220	LR5230	LR5240	LR5250	LR5260	LR5270
Appearance	Precoloured	Precoloured	Precoloured	Precoloured	Precoloured	Precoloured
Hardness (Shore A)	20-24	28-32	38-42	47-52	57-62	65-70
Density (g/cm <sup>3</sup> )	1.08-1.11	1.11-1.13	1.11-1.14	1.11-1.14	1.12-1.15	1.13-1.16
Viscosity (Pa.s)	600-1000	1000-1500	1200-1600	1500-2200	2000-3000	2000-3000
Tensile Strength (MPa)	Min. 6.0	Min. 7.5	Min. 7.5	Min. 8.5	Min. 8.5	Min. 8.0
Elongation at Break (%)	Min. 750	Min. 650	Min. 460	Min. 450	Min. 400	Min. 350
Tear Strength (KN/m)	Min. 12	Min. 18	Min. 20	Min. 30	Min. 30	Min. 25
Compression Set, First cured (%)	Max. 20	Max. 20	Max. 20	Max. 25	Max. 25	Max. 25
Dielectric Strength (1-mm-sheet) (KV/mm)	25	25	25	26	26	26
Volume Resistivity (Ωcm)	1x10 <sup>16</sup>	1x10 <sup>16</sup>	4x10 <sup>16</sup>	3x10 <sup>16</sup>	5x10 <sup>16</sup>	6x10 <sup>16</sup>
Permittivity (50Hz)	2.8	2.8	2.9	2.9	2.9	2.7
Dissipation Factor (50 Hz)	11 x10 <sup>-4</sup>	11 x10 <sup>-4</sup>	9 x10 <sup>-4</sup>	11 x10 <sup>-4</sup>	17 x10 <sup>-4</sup>	14 x10 <sup>-4</sup>
Curing Condition:	5 minutes at 165°C.					

## LSR for Optical

Application: Crystal cup, earphone sleeve, optical lens and parts, gasket ring, trade mark logo.

Product	LR6030	LR6040	LR6050	LR6060	LR6070	LR6080
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Ratio A:B	1:1	1:1	1:1	1:1	1:1	1:1
Viscosity (Pa.s)	30-50	30-50	30-50	30-50	30-50	30-50
Light Transmittance (%)	Min. 94	Min. 94	Min. 94	Min. 93	Min. 93	Min. 93
Rebound (%)	Min. 70	Min. 60	Min. 45	Min. 40	Min. 35	Min. 30
Hardness (Shore A)	28-32	38-42	48-52	58-62	68-72	78-82
Tensile Strength (MPa)	Min. 3.5	Min. 4.0	Min. 5.0	Min. 5.2	Min. 5.5	Min. 6.0
Tear Strength (KN/m)	Min. 7	Min. 9	Min. 13	Min. 15	Min. 15.5	Min. 16
Elongation at Break (%)	Min. 300	Min. 300	Min. 300	Min. 280	Min. 200	Min. 200
Compression Set (%)	Max. 1.5	Max. 1.5	Max. 1.5	Max. 1.5	Max. 1.5	Max. 1.5
Refractive Index (25°C)	1.41	1.41	1.41	1.41	1.41	1.41

## LSR for Printer Roller, Insulating OA Roller

Application: Printer and duplicating machine roller surface material.

Product	LR7115	LR7120	LR7130	LR7140	LR7150
Appearance	Iron red	Iron red	Iron red	Iron red	Iron red
Density (g/cm <sup>3</sup> )	1.20-1.24	1.20-1.24	1.20-1.24	1.20-1.24	1.20-1.24
Hardness (Shore A) (*A/Asker C)	3/15	5/20	10/30	20/40	30/50
Viscosity (Pa.s)	50-100	50-100	50-100	100-150	100-150
Tensile Strength (MPa)	Min. 0.8	Min. 1.0	Min. 1.2	Min. 1.2	Min. 1.2
Elongation at Break (%)	Min. 400	Min. 400	Min. 400	Min. 400	Min. 350
Tear Strength (KN/m)	Min. 2	Min. 2	Min. 2	Min. 2	Min. 2
Linear Shrinkage (%)	Max. 2.5	Max. 2.5	Max. 2.5	Max. 2.5	Max. 2.5
Tensile Set (%)	Max. 2	Max. 2	Max. 2	Max. 2	Max. 2
Rebound (%)	Min. 15	Min. 20	Min. 35	Min. 50	Min. 60
Compression Set (%) (200°C x 4h 180°C x 22h, compress 25%)	Max. 10	Max. 10	Max. 10	Max. 10	Max. 10
Curing Time (150°C)	Tc10≥8s, Tc90≤45s				
Curing condition	10 minutes at 140°C and post cure 4 hours at 200°C.				

## LSR for Printer Roller, Conductive OA Roller

Application: Printer and duplicating machine roller surface material.

Product	LR7215	LR7220	LR7230	LR7240	LR7250
Appearance	Black	Black	Black	Black	Black
Density (g/cm <sup>3</sup> )	0.999-1.001	0.999-1.001	0.999-1.001	0.999-1.001	0.999-1.001
Hardness (Shore A) (*A/Asker C)	3/15	5/20	10/30	20/40	30/50
Viscosity (Pa.s)	50-100	50-100	50-100	50-100	50-100
Tensile Strength (MPa)	Min. 0.6	Min. 0.6	Min. 0.8	Min. 1.0	Min. 1.0
Elongation at Break (%)	Min. 400	Min. 400	Min. 350	Min. 350	Min. 350
Tear Strength (KN/m)	Min. 2	Min. 2	Min. 2	Min. 2	Min. 2
Linear Shrinkage (%)	Max. 2.5	Max. 2.5	Max. 2.5	Max. 2.5	Max. 2.5
Tensile Set (%)	Max. 2	Max. 2	Max. 2	Max. 2	Max. 2
Rebound (%)	Min. 20	Min. 25	Min. 40	Min. 50	Min. 60
Compression Set (%) (200°C x 4h 180°C x 22h, compress 25%)	Max. 8	Max. 8	Max. 8	Max. 8	Max. 8
Curing Time (150°C)	Tc10≥8s, Tc90≤50s				
Curing condition	10 minutes at 140°C and post cure 4 hours at 200°C.				

## LSR for Printer Roller, Conductive PCR & DR Roller

Application: PCR & DR roller

Product	LR7345	LR7350	LR7365
Appearance	Black	Black	Black
Hardness (Shore A)	44-45	49-51	62-64
Viscosity (Pa.s) A	40-44	66-70	250-270
Viscosity (Pa.s) B	41-44	66-70	250-270
Tensile Strength (MPa)	Min. 4.5	Min. 4.5	Min. 5.0
Elongation at Break (%)	Min. 140	Min. 150	Min. 150
Tear Strength (KN/m)	Min. 6.0	Min. 5.5	Min. 8.0
Linear Shrinkage (%)	Max. 2.5	Max. 2.5	Max. 2.5
Rebound (%)	Min. 60	Min. 68	
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.		

## LSR for Sports Ware

Application: Diving mask, headband, chewing tip, etc.

Product	LR8540	LR8550	LR8560	LR8570
Appearance	Transparent	Transparent	Transparent	Transparent
Density (g/cm <sup>3</sup> )	1.08	1.10	1.12	1.14
Hardness (Shore A)	38-42	48-52	58-62	68-72
Viscosity (Pa.s)	700-900	700-900	750-900	900-1000
Tensile Strength (MPa)	Min. 8.5	Min. 9.0	Min. 8.0	Min. 9.0
Elongation at Break (%)	Min. 600	Min. 600	Min. 400	Min. 320
Tear Strength (KN/m)	Min. 27	Min. 31	Min. 30	Min. 30
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.Max. 25			

## LSR for Textile and Coating

Application: Printing, non-slip cloth, trademark, non-slip pad, gloves, artificial leather, swimming cap, car interior, etc.

Product	LR9020	LR9042	LR9075	LR9133
Viscosity (Pa.s)	60-70	70-80	30-50	30-40
Hardness (Shore A)	18-22	40-45	67-83	31-36
Tensile Strength (MPa)	Min. 5.0	Min. 6.5	Min. 7.0	Min. 5.4
Tear Strength (KN/m)	Min. 8	Min. 12	Min. 14.5	Min. 12
Elongation at Break (%)	Min. 600	Min. 360	Min. 100	Min. 470
Curing condition:	10 minutes at 140°C and post cure 4 hours at 200°C.Max. 25			

# SiSiB SILICONES



# HCR

## Benefit

- High performance
- Outstanding mechanical, electrical insulating properties
- Shortened development time
- Optimized manufacturing capabilities
- Useable for molding, extrusion and calendaring processes.

## HCR - General for Molding

Application: Economical grade for keypads or parts

Product	HR0130	HR0140	HR0150	HR0160	HR0170	HR0180
Appearance	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2	81+/-3
Williams Plasticity	130+/-20	160+/-20	215+/-24	240+/-30	330+/-40	340+/-40
Tensile strength (Mpa) Min.	4.0	6.5	7.0	6.5	6	6
Elongation (%) Min.	500	400	300	220	150	120
Tensile set (%) Max.	10.0	10.0	10.0	8.0	8.0	6.0
Tear strength (kN/m) Min.	12.0	12.0	15.0	14.0	14.0	16.0
Linear Shrinkage (%)	3.3-3.8	3.2-3.7	3.1-3.6	3.0-3.5	2.9-3.4	2.9-3.4
Curing Agents	C-8	C-8	C-8	C-8	C-8	C-8

## HCR - Advanced for Molding

Application: Excellent appearance and bound resilience. Suitable for high grade keypads and parts .

Product	HR0230	HR0240	HR0250	HR0260	HR0270	HR0280	HR0290
Appearance	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2	81+/-3	90+/-3
Williams Plasticity	130+/-20	160+/-20	190+/-20	240+/-30	350+/-40	330+/-40	370+/-40
Tensile strength (Mpa) Min.	4.5	6.5	7.0	7.0	7.0	6.0	5.0
Elongation (%) Min.	500	420	320	250	200	120	100
Tensile set (%) Max.	8.0	8.0	8.0	6.0	6.0	6.0	8.0
Tear strength (kN/m) Min.	12.0	16.0	18.0	18.0	16.0	16.0	18.0
Linear Shrinkage (%)	3.3-3.8	3.2-3.7	3.1-3.6	3.0-3.5	2.9-3.4	2.9-3.4	2.8-3.4
Curing Agents	C-8	C-8	C-8	C-8	C-8	C-8	C-8

## HCR - High Strength for Molding

Application: Complex structure products

Product	HR0350	HR0360	HR0370
Appearance	Translucent	Translucent	Translucent
Hardness (Shore A)	50+/-2	60+/-2	70+/-2
Williams Plasticity	215+/-25	240+/-30	330+/-40
Tensile strength (Mpa) Min.	7.0	6.5	7.0
Elongation (%) Min.	400	350	250
Tensile set (%) Max.	10.0	12.0	8.0
Tear strength (kN/m) Min.	18.0	16.0	15.0
Linear Shrinkage (%)	3.1-3.6	3.0-3.5	2.9-3.4
Curing Agents	C-8	C-8	C-8

## HCR - Yellow Resistant

Application: Anti-yellow products

Product	HR0430	HR0440	HR0450	HR0460	HR0470
Appearance	Light yellow	Light yellow	Light yellow	Light yellow	Light yellow
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2
Williams Plasticity	130+/-20	150+/-20	190+/-20	235+/-25	285+/-25
Tensile strength (Mpa) Min.	4.0	6.5	7.0	6.5	6.0
Elongation (%) Min.	500	400	300	220	150
Tensile set (%) Max.	10.0	10.0	10.0	10.0	8.0
Tear strength (kN/m) Min.	12.0	16.0	15.0	14.0	16.0
Linear Shrinkage (%)	3.3-3.8	3.2-3.7	3.1-3.6	3.0-3.5	2.9-3.4
Curing Agents	C-8	C-8	C-8	C-8	C-8

## HCR - Hot Water Resistant

Application: Cup, cup cover etc

Product	HR0940	HR0950	HR0960	HR0970
Appearance	Light yellow	Light yellow	Light yellow	Light yellow
Hardness (Shore A)	40+/-2	50+/-2	60+/-2	70+/-2
Williams Plasticity	150+/-20	190+/-20	260+/-30	285+/-25
Tensile strength (Mpa) Min.	6.5	7.0	6.5	6.0
Elongation (%) Min.	400	300	260	150
Tensile set (%) Max.	10.0	10.0	8.0	8.0
Tear strength (kN/m) Min.	16.0	15.0	14.0	16.0
Linear Shrinkage (%)	3.2-3.7	3.1-3.6	3.0-3.5	2.9-3.4
Curing Agents	C-8	C-8	C-8	C-8

## HCR - General for Extrusion

Application: Wires; HR0870 is designed for heating wires.

Product	HR0650	HR0660	HR0670	HR0760	HR0770	HR0870*
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	White
Hardness (Shore A)	55+/-3	60+/-3	70+/-3	60+/-2	69+/-3	73+/-3
Williams Plasticity	230+/-20	290+/-30	365+/-55	290+/-30	330+/-40	370+/-40
Tensile strength (Mpa) Min.	7.0	7.0	6.0	7.0	6.0	4.0
Elongation (%) Min.	300	300	200	220	220	200
Tensile set (%) Max.	8.0	10.0	10.0	10.0	12.0	10.0
Tear strength (kN/m) Min.	16.0	16.0	16.0	16.0	15.0	14.0
Curing Agents	C-8	C-8	C-8	C-8	C-8	C-8E

## HCR - Advanced for Extrusion

Application: Wires and tubes

Product	HR2340	HR2350	HR2360	HR2370
Appearance	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	40+/-2	50+/-2	60+/-3	70+/-3
Williams Plasticity	180+/-20	190+/-20	250+/-20	255+/-25
Tensile strength (Mpa) Min.	7.5	8.0	8.0	7.5
Elongation (%) Min.	600	500	400	300
Tensile set (%) Max.	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	13.0	15.0	26.0	26.0
Curing Agents	C-15	C-15	C-15	C-15

## HCR - General High Strength

Application: Kitchenware, parts.

Product	HR2630	HR2640	HR2650	HR2660	HR2670	HR2675	HR2680
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2	75+/-2	80+/-3
Williams Plasticity	160+/-20	205+/-25	215+/-25	260+/-30	285+/-35	300+/-30	330+/-40
Tensile strength (Mpa) Min.	7.0	8.0	8.0	8.0	7.5	7.5	6.5
Elongation (%) Min.	750	550	500	400	300	300	200
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0	12.0	14.0
Tear strength (kN/m) Min.	14.0	18.0	26.0	26.0	26.0	26.0	24.0
Curing Agents	C-15	C-15	C-15	C-15	C-15	C-15	C-15

## HCR - Advanced High Strength

Application: Cables, wires, kitchenware, protection skin.

Product	HR2030	HR2040	HR2050	HR2060	HR2070	HR2075	HR2080
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2	75+/-2	80+/-3
Williams Plasticity	160+/-20	205+/-25	215+/-25	260+/-30	285+/-35	300+/-30	330+/-40
Tensile strength (Mpa) Min.	7.0	8.0	8.0	8.0	7.5	7.5	7.5
Elongation (%) Min.	750	550	500	400	300	300	200
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0	12.0	8.0
Tear strength (kN/m) Min.	14.0	18.0	26.0	26.0	26.0	26.0	24.0
Curing Agents	C-15	C-15	C-15	C-15	C-15	C-15	C-15

## HCR - High Transparency & High Strength for Extrusion

Application: Baby nipple, tubes, parts.

Product	HR2130	HR2140	HR2150	HR2160	HR2170	HR2180
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2	80+/-3
Williams Plasticity	160+/-20	220+/-30	195+/-25	250+/-30	285+/-35	330+/-40
Tensile strength (Mpa) Min.	7.0	7.0	8.0	8.0	7.5	6.5
Elongation (%) Min.	750	500	550	400	300	250
Tensile set (%) Max.	8.0	8.0	8.0	10.0	12.0	14.0
Tear strength (kN/m) Min.	14.0	18.0	28.0	26.0	28.0	24.0
Curing Agents	C-15	C-15	C-15	C-15	C-15	C-15



# SiSiB SILICONES

## HCR - High Tear Strength for Extrusion

Application: Wires and tubes

Product	HR2230	HR2240	HR2250	HR2260	HR2270
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	30+/-2	40+/-2	50+/-2	60+/-2	70+/-2
Williams Plasticity	160+/-20	200+/-20	240+/-20	260+/-30	285+/-35
Tensile strength (Mpa) Min.	6.0	7.0	8.0	8.0	8.0
Elongation (%) Min.	700	750	550	500	500
Tensile set (%) Max.	14.0	14.0	14.0	14.0	14.0
Tear strength (kN/m) Min.	22.0	26.0	40.0	40.0	40.0
Curing Agents	C-15	C-15	C-15	C-15	C-15

## HCR - High Rebound & High Tear Strength for Extrusion

Application: Cables, wires and parts.

Product	HR2440	HR2450	HR2460	HR2470
Appearance	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	40+/-2	50+/-2	60+/-2	70+/-2
Williams Plasticity	200+/-20	190+/-20	260+/-30	255+/-25
Tensile strength (Mpa) Min.	7.0	8.0	8.0	8.0
Elongation (%) Min.	750	550	500	500
Tensile set (%) Max.	14.0	14.0	14.0	14.0
Tear strength (kN/m) Min.	26.0	40.0	40.0	40.0
Curing Agents	C-15	C-15	C-15	C-15

# HCR

## HTV for Medical Tubing Extrusion / Platinum

Application: Medical tubing

Product	HR2840	HR2850	HR2860	HR2870
Appearance	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	40+/-2	50+/-2	60+/-2	70+/-2
Williams Plasticity	180+/-20	190+/-20	250+/-20	255+/-25
Tensile strength (Mpa) Min.	7.5	8.0	8.0	8.0
Elongation (%) Min.	600	500	400	250
Tensile set (%) Max.	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	13.0	15.0	26.0	15.0
Curing Agents	C-15	C-15	C-15	C-15

## HCR - Flame Retardant

Application: Fumed-silica based, UL94-V0 certificated, suitable for molding and extrusion products.

Product	HR6030	HR6040	HR6050	HR6060	HR6070	HR6080	HR6090
Appearance	White	White	White	White	White	White	White
Hardness (Shore A)	30+/-3	40+/-3	50+/-3	60+/-3	70+/-3	80+/-3	87+/-3
Williams Plasticity	160+/-20	180+/-30	200+/-40	205+/-35	285+/-35	330+/-40	340+/-40
Tensile strength (Mpa) Min.	2.0	3.0	3.0	4.5	4.0	3.5	3.0
Elongation (%) Min.	500	400	350	220	150	100	60
Tensile set (%) Max.	12.0	12.0	10.0	12.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	6.0	10.0	10.0	14.0	10.0	12.0	12.0
Curing Agents	C-8E	C-8E	C-8E	C-8E	C-8E	C-8E	C-8E

## HCR - Heat Resistant

Application: HR6xx1 below 280°C, H6xx3 below 315°C

Product	HR6251	HR6261	HR6271	HR6253	HR6263	HR6273	HR6283
Appearance	Red or Translucent			Red or Translucent			
Hardness (Shore A)	50+/-3	60+/-3	70+/-3	50+/-2	60+/-2	70+/-2	80+/-2
Williams Plasticity	215+/-25	260+/-30	285+/-35	185+/-25	260+/-30	310+/-30	330+/-40
Tensile strength (Mpa) Min.	8.0	8.0	7.5	7.0	8.0	8.0	7.0
Elongation (%) Min.	500	400	300	300	250	180	100
Tensile set (%) Max.	8.0	8.0	8.0	10.0	10.0	10.0	10.0
Tear strength (kN/m) Min.	22.0	22.0	22.0	16.0	16.0	16.0	15.0
Curing Agents	C-15	C-15	C-15	C-15	C-15	C-15	C-15



# SiSiB SILICONES

# HCR

## HCR - Oil Resistant

Application: Good oil resistant properties

Product	HR6130	HR6140	HR6150	HR6160	HR6170	HR6175
Appearance	Off-white	Off-white	Off-white	Off-white	Off-white	Off-white
Hardness (Shore A)	30+/-3	40+/-3	50+/-3	60+/-3	70+/-3	75+/-3
Tensile strength (Mpa) Min.	4.0	4.0	6.0	5.0	6.0	4.0
Elongation (%) Min.	400	350	300	200	150	80
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	8.0	10.0	12.0	12.0	12.0	10.0
Curing Agents	C-8	C-8	C-8	C-8	C-8	C-8

## HCR - Oil Resistant

Application: Good oil resistant properties to ASTM 1# and IRM903 oil. Low compression set.

Product	HR6152	HR6162	HR6172	HR6182
Appearance	White	White	White	White
Hardness (Shore A)	50+/-3	60+/-3	70+/-3	80+/-3
Tensile strength (Mpa) Min.	6.0	5.0	6.0	4.0
Elongation (%) Min.	300	200	150	80
Tensile set (%) Max.	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	12.0	12.0	12.0	10.0
Curing Agents	C-8	C-8	C-8	C-8

## HCR - High Bound Resilience

Application: Seals, long-life keypads and other parts.

Product	HR0550	HR0560	HR0570	HR2540	HR2550	HR2560	HR2570
Appearance	Translucent	Translucent	Translucent	Transparent	Transparent	Transparent	Transparent
Hardness (Shore A)	50+/-2	60+/-2	70+/-2	40+/-3	50+/-2	60+/-2	70+/-2
Williams Plasticity	190+/-20	185+/-35	260+/-30	180+/-30	185+/-25	260+/-30	310+/-30
Tensile strength (Mpa) Min.	5.5	7.0	8.0	6.0	7.0	8.0	8.0
Elongation (%) Min.	250	180	150	300	300	280	200
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	15.0	14.0	14.0	16.0	20.0	24.0	26.0
Curing Agents	C-8	C-8	C-8	C-15	C-15	C-15	C-15

## HCR - Self-lubricating

Application: Auto parts and seals

Product	HR6320	HR6330	HR6340	HR6350	HR6360
Appearance	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness (Shore A)	20+/-3	30+/-3	40+/-3	50+/-3	60+/-3
Tensile strength (Mpa) Min.	4.0	4.5	6.0	7.0	5.5
Elongation (%) Min.	500	300	300	250	200
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	8.0	12.0	12.0	15.0	15.0
Curing Agents	C-8	C-8	C-8	C-8	C-8

## HCR - Self-lubricating & High Strength

Application: Auto parts and seals

Product	HR6321	HR6331	HR6341	HR6351	HR6361
Appearance	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness (Shore A)	20+/-3	30+/-3	40+/-3	50+/-3	60+/-3
Tensile strength (Mpa) Min.	5.0	5.0	7.0	8.0	7.0
Elongation (%) Min.	500	400	350	300	300
Tensile set (%) Max.	8.0	8.0	8.0	8.0	8.0
Tear strength (kN/m) Min.	12.0	15.0	20.0	20.0	20.0
Curing Agents	C-8	C-8	C-8	C-8	C-8



# SiSiB SILICONES

# HCR

## HCR - High Voltage Insulator

Application: High Voltage Insulator / Arrester

Product	HR6550	HR6560	HR6570
Appearance	White	White	White
Hardness (Shore A)	60+/-3	60+/-3	70+/-5
Williams Plasticity	220+/-40	250+/-50	300+/-45
Tensile strength (Mpa) Min.	4.0	4.0	4.0
Elongation (%) Min.	180	200	150
Tensile set (%) Max.	8.0	8.0	8.0
Tear strength (kN/m) Min.	10.0	12.0	12.0
Curing Agents	C-8BS 0.9%	C-8BS 0.9%	C-8BS 0.9%

# HCR

## HCR - Low Compression Set

Application: Seal, gasket and roller.

Product	HR6750	HR6760	HR6770	HR6780
Appearance	White	White	White	White
Hardness (Shore A)	50+/-3	60+/-3	70+/-3	80+/-3
Tensile strength (Mpa) Min.	6.0	6.0	6.0	6.0
Elongation (%) Min.	150	150	80	80
Tensile set (%) Max.	8.0	6.0	6.0	6.0
Tear strength (kN/m) Min.	12.0	12.0	12.0	12.0
Curing Agents	C-8	C-8	C-8	C-8

## HCR - Low Hardness

Application: Swimming caps and other parts

Product	HR6808	HR6825	HR6820
Appearance	Translucent	Translucent	Translucent
Hardness (Shore A)	8+/-2	25+/-2	20+/-2
Williams Plasticity	-	155+/-25	155+/-25
Tensile strength (Mpa) Min.	-	5.5	3.0
Elongation (%) Min.	-	700	700
Tensile set (%) Max.	-	10.0	10.0
Tear strength (kN/m) Min.	-	12.0	8.0
Curing Agents	C-15	C-15	C-8

Curing Agent	Component	Applications	Curing Condition
C-8	2,5-Bis(tert-butylperoxy)-2,5-dimethylhexane 25% paste.	General	5 minutes at 170°C
C-8BS	2,5-Bis(tert-butylperoxy)-2,5-dimethylhexane 50% paste.	General	10 minutes at 170°C
C-8E	2,5-Bis(tert-butylperoxy)-2,5-dimethylhexane 25% paste	Flame retardant products	5 minutes at 170°C
C-15	2,5-Bis(tert-butylperoxy)-2,5-dimethylhexane 25% paste	Transparent products	10 minutes at 170°C

Data are tested with 2% curing agent, 2mm slabs, after 1<sup>st</sup> curing.

Typical data are average data and actual values may vary. Typical data shall not be used as product specifications.