

# Silicone Products

Revision : Aug 2017



Insulcast Product	Viscosity in Centipoises (m=mixed)	Hardness Durometer	Thermal Conductivity W/m K	Temp. Rating deg.C	Dielectric Constant (KHz)	Dielectric Strength (Volts/Mil)	Volume Resistivity (ohm-cm)	Coefficient of Thermal Expansion	Mix Ratio by weight	UL94 V-0	Primary Benefits
<b>Addition Cure</b>											
27 LV Dark Grey	1200	60A	0,31	-55 to +204	3,40	500	3x10 <sup>14</sup>	22x10 <sup>-5</sup>	1:1	Yes	General purpose
8128 Dark Grey	2200	53A	0,31	-55 to +204	3,00	550	1x10 <sup>15</sup>	22x10 <sup>-5</sup>	1:1	Meets	High voltage power supply
27 Black	2900	60A	0,31	-55 to +204	3,00	500	1x10 <sup>15</sup>	22x10 <sup>-5</sup>	1:1	Yes	General purpose, low cost
27 FC Black	2900	60A	0,31	-55 to +204	3,00	514	1x10 <sup>15</sup>	22x10 <sup>-5</sup>	1:1	Yes	Fast cure, general purpose, low cost
8127 Grey	4000	55A	0,75	-55 to +204	4,00	500	1x10 <sup>15</sup>	18x10 <sup>-5</sup>	1:1	Yes	High thermal conductivity
61M Water Clear	4500	35A	0,19	-55 to +204	2,70	500	1x10 <sup>15</sup>	27x10 <sup>-5</sup>	100:10 (v)	No	Water clear, low viscosity, self extinguishing
27 HTC Black	6000	60A	1,01	-55 to +232	4,00	500	1x10 <sup>15</sup>	17x10 <sup>-5</sup>	1:1	Yes	High thermal conductivity
3-95-1 Red	10000	65A	1,44	-55 to +260	5,00	500	5x10 <sup>14</sup>	18x10 <sup>-5</sup>	100:5	Yes	High thermal conductivity, high temperature
42 Curtis II Black	16000	75A	0,58	-40 to +125	4,00	500	1x10 <sup>15</sup>	45x10 <sup>-6</sup>	100:4.8	Yes	Good thermal shock
LN-18-100 Grey	19000	60A	0,31	-55 to +204	2,70	514	1x10 <sup>15</sup>	19x10 <sup>-5</sup>	1:1	Yes	Low dielectric constant
3-95-2 FC Red	35000	85A	1,44	-55 to +260	5,00	425	1x10 <sup>14</sup>	15x10 <sup>-5</sup>	1:1	Meets	Very High thermal conductivity, high temperature, Fast cure.
3-95-2 Red	35000	85A	1,44	-55 to +260	5,00	425	1x10 <sup>14</sup>	15x10 <sup>-5</sup>	1:1	Yes	Very High thermal conductivity, high temperature
<b>Mold making</b>											
MRTV 9	50000	24A	0,18	-55 to +200	2,94	550	1.6x10 <sup>15</sup>	4.2x10 <sup>-4</sup>	100:10	No	Mold making, high tear strength
MRTV 2	90000	40A	0,18	-55 to +200	2,94	500	1.6x10 <sup>15</sup>	4.2x10 <sup>-4</sup>	100:10	No	Mold making, high tear strength
<b>Adhesive</b>											
A4000	900-2500	n/a	n/a	-73 to +260	n/a	450	n/a	n/a	40:03,3	No	MIL-A-47317 & MIS-20220
<b>Grease</b>											
SG 146 LV	n/a	n/a	n/a	-40 to +450	2,90	450	1x10 <sup>14</sup>	n/a	n/a	No	FDA 21 CFR 175.300, Semi-transparent
<b>Condensation Cure</b>											
11 White	12000	45A	0,31	-55 to +204	3,40	500	9x10 <sup>14</sup>	25x10 <sup>-5</sup>	0.1 to 0.5%(w)	No	General purpose, low cost
51	12000	50A	0,31	-115 to +232	3,60	520	2x10 <sup>14</sup>	22x10 <sup>-5</sup>	0.1 to 0.5%(w)	No	Low temperature flexible, easily pourable
46	40000	30A	0,26	-50 to +204	2,60	250	1x10 <sup>14</sup>	20x10 <sup>-5</sup>	100:5 (w)	No	Cures to a flexible syntactic foam
<b>RTV Primers</b>											
44 clear	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Flash point 29 deg C / 84 deg F - 5 gallon pails only
41 blue	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Flash point 29 deg C / 84 deg F
40 pink-red	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Flash point 20 deg C / 68 deg F