

Epoxy Products

Revision : Aug 2017



Insulcast Product	Viscosity in Centipoises (m=mixed)	Hardness Durometer	Thermal Conductivity W/m K	Temp. Rating deg.C	Glass Transition Point (Deg C)	Dielectric Constant (KHz)	Dielectric Strength (Volts/Mil)	Volume Resistivity (ohm-cm)	Coefficient of Thermal Expansion	Mix Ratio by weight (with curing agent)	UL94V-0	Primary Benefits & applications
504 Black	200	75D	0,23	-40 to +105	75	4,00	525	2.6x10 ¹⁴	61x10 ⁻⁶	100 : 12 (lcure 9)	No	Unfilled, excellent electrical and physical properties
502 Clear	200	85D	0,23	-40 to +105	85	4,00	425	2x10 ¹⁵	75x10 ⁻⁶	100 : 13 (lcure 9)	No	Unfilled, clear, excellent electrical and physical properties
333 Black / Neutral	2000	85D	0,618	-40 to +105	80	4,40	410	1x10 ¹⁵	48x10 ⁻⁶	100 : 6 (lcure 9)	Yes	Conforms to MIL-I-16923 Type E
125 Black	3000	80D	0,648	-40 to +105	80	4,20	415	5x10 ¹⁴	48x10 ⁻⁶	100 : 6-7 (lcure 9)	No	Low viscosity, general purpose, good machinability.
70 CC FR NS Black	3000	50D	0,518	-40 to +105	5	3,60	400	7x10 ¹²	90x10 ⁻⁶	100 : 10-11	Yes	Semi flexible, low coefficient of expansion
LN 1-05 Black	5000	85D	0,648	-40 to +105	75	5,15	400	6x10 ¹⁵	32x10 ⁻⁶	100 : 14	No	Non-cracking - large potting applications
3230 LV Black	6000	90D	1,2	-40 to +105	80	6,30	475	1.3x10 ¹⁶	28x10 ⁻⁶	100 : 5-7 (lcure 9)	No	High thermal conductivity,Low Viscosity, NASA Outgassing Spec.
961 FR Black	7000	70D	0,172	-40 to +105	80	2,70	375	1x10 ¹³	40x10 ⁻⁶	100 : 11-12 (lcure 9)	No	Low density syntactic foam
116 FR Black	8100	75D	0,432	-40 to +105	80	4,40	420	1x10 ¹⁴	30x10 ⁻⁶	1 : 1	Yes	General purpose, low cost,
116 FR FC Black	9800	75D	0,432	-40 to +105	80	4,40	420	1x10 ¹⁴	30x10 ⁻⁶	1 : 1	Yes	General purpose, low cost, Fast Set
101 Black	10000	80D	0,468	-55 to +155						1 : 1	No	Excellent chemical resistance to oil / gasoline , semi rigid.
42 Black	15000	75A	0,604	-55 to +125	-60	4,00	440	1x10 ¹⁵	45x10 ⁻⁶	100 : 10	Yes	Good thermal shock.
136 Black	30000	87D	0,72	-40 to +105	80	4,80	440	5x10 ¹⁶	40x10 ⁻⁶	100 : 6-7 (lcure 9)	No	Conforms to MIL-I-16923, Type B, C and D & E
985 FR Black	50000	70D	0,504	-55 to +155	80	3,80	425	6x10 ¹⁵	32x10 ⁻⁶	1 : 1	Yes	Semi-flexible, flame retardent, superior shock resistance
140 FR Black	50000	90-95D	2,88	-40 to +105	100	6,30	420	1x10 ¹⁵	26x10 ⁻⁶	100 : 3-4 (lcure 11B)	Yes	Very High Thermal Conductivity
987 CM Neutral	60000	65D	0,417	-40 to +105	80	4,90	375	1x10 ¹⁴	45x10 ⁻⁶	2 : 3	No	Semi Flexible,
Gel												
Insulgel 90 Clear	200	90A	0,23	-55 to +105		3,50	375	1x10 ¹⁴	45x10 ⁻⁶	100:25	No	Soft gel
Insulgel 50 FC Black	500	50A	0,23	-55 to +105		3,50	425	1x10 ¹⁴	45x10 ⁻⁶	100:25	No	Soft gel, Fast cure.
Adhesive												
Insulbond 5-171-1	1250	n/a	n/a	-55 to +150		n/a	n/a	n/a	n/a	90 : 80		Good peel strength