Plaskon 7115

Epoxy; Epoxide

Cookson Electronics - Semiconductor Products

Message:

This material is a standard epoxy molding compound used for the encapsulation of a variety of semiconductor devices ranging from small lead count DIPs to medium lead count PLCCs, to Transistors and SOICs. It was especially developed for balanced end use properties.

General Information			
Features	Semi-conductive Laser marking Good formability Excellent appearance		
Forms	Liquid		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.89	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	1.38	MPa	ASTM D790
Flexural Strength	0.0138	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	165	°C	ASTM E1356
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	20	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.50		ASTM D150
Dissipation Factor (1 kHz)	0.010		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.18 mm)	V-0		UL 94

Additional Information
Recommended Storage Temperature: 5°CLife @ 5°C, defined as not more than 40% loss of spiral flow based on original values.: 24 monthsLife @ 21°C, defined as not more than 40% loss of spiral flow based on original values.: 3 daysLife @ 35°C, defined as not more than 40% loss of spiral flow based on original values.: 2 daysSpiral Flow, 177°C, 1000 psi: 77 cmAutomatic Orifice Viscosity, 175°C, Shear Rate is 157000 sec-1, 1 mm die length, 1/2 mm diameter: 35 Pascal secRam Follower Gel Time, 177°C: 16 secAsh Content: 72 %Hydrolyzable Halides: 10 ppmCull Hot Hardness, Shore D, 90 sec, 175°C: 85Arc Resistance, 110v AC180 secAll test specimens are transfer molded and post cured for 4 hours at 175°C Linear Thermal Expansion, Alpha 1: 22 cm^-6/cm/°C Linear Thermal Expansion, Alpha 2: 63 cm^-6/cm/°C
Injection instructions

Resin Transfer Molding:
Preheat Temperature: 90 to 100°C
Molding Temperature: 170 to 190°C
Molding Pressure: 1000 psi
Cure Time, 177°C: 60 to 90min
Post Mold Cure Time, 175°C: 4 hr

Recommended distributors for this material

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