Epic Urethane S7285-02

Polyurethane

Epic Resins

Message:

Epic S7285-02 is a two component polyurethane compound that was formulated for potting electronic control modules (ECM's). The low mixed viscosity of the S7285-02 allows the material to flow into intricate places under printed circuit boards and other tight tolerance areas in a wide variety of electronic devices. Another key property of this product is the 4:1 by volume mix ratio that makes the system very adaptable to meter mix and dispense applications. Offering a hardness of Shore 00 = 50-65, the S7285-02 provides excellent flexibility, therefore allowing delicate surface mounted devices (SMD's) to expand and contract during thermal shocks and thermal cycling. For applications that generate a great deal of heat, this product is also an excellent choice due to its low weight loss at elevated temperatures. S7285-02 has shown extremely low weight loss at 130C - 0.24% after 168 hours. Epic S7285-02 is UL 94 V-0 recognized at 4.5 mm and is RoHS compliant.

General Information	
Features	Good Flexibility Good Thermal Shock Resistance Low Viscosity
Uses	Electrical/Electronic Applications Electronic Insulation
RoHS Compliance	RoHS Compliant
Processing Method	Encapsulating Potting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32 to 1.36	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore OO, 25°C)	50 to 65		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-55.0	°C	ASTM E1356
CLTE - Flow	3.5E-4 to 3.7E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.7E+12 to 2.8E+12	ohms·cm	ASTM D257
Dielectric Strength (2.79 mm)	17 to 20	kV/mm	ASTM D149
Dielectric Constant (100 kHz)	3.20 to 3.28		ASTM D2520
Dissipation Factor (100 kHz)	0.010 to 0.011		ASTM D150
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
	Mix Ratio by Volume: 4.0		
Part A	Mix Ratio by Weight: 100		

	Mix Ratio by Volume: 1.0		
Part B	Mix Ratio by Weight: 17		
Pot Life [1] (25°C)	40 to 50	min	
Thermoset Mix Viscosity (25°C)	1000 to 2000	cP	ASTM D2393

NOTE	
1.	100 Gram Mass

Recommended distributors for this material

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