

Cookson Group Plaskon® 440S Mineral Filled Novolac Epoxy Molding Compound (discontinued **)

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Mineral Filled , Filled/Reinforced Thermoset

Material Notes:

Test specimens were transfer molded and post cured 4 hours at 175°C. Combines exceptional reliability with wide process latitude. This material is designed to encapsulate a wide range of semiconductor devices including diodes, transistors, and integrated circuits in dual in-line, quad or small outline configurations.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cookson-Group-Plaskon-440S-Mineral-Filled-Novolac-Epoxy-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Spiral Flow	64.0 - 88.0 cm	25.2 - 34.6 in	177°C/1000 psi

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	97.0 MPa	14100 psi	
Flexural Strength	147 MPa	21300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	78.0 µm/m-°C	43.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	155 °C	311 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
	3.9	3.9	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dielectric Strength	20.0 kV/mm	508 kV/in	
Dissipation Factor	0.0060 @Frequency 1000 Hz	0.0060 @Frequency 1000 Hz	
Arc Resistance	190 sec	190 sec	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 185 °C	347 - 365 °F	Molding temperature

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