Dow CYCLOTENE™ 4022-35 Advanced Electronic Resins (PhotoBisbenzocyclobutene BCB)

Category : Polymer

Material Notes:

CYCLOTENE™ 4022-35 advanced electronic resin is I-line-, G-line-, and broad band-sensitive photopolymer that has been developed for use as a dielectric in thin film microelectronic applications.Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-CYCLOTENE-4022-35-Advanced-Electronic-Resins-PhotoBisbenzocyclobutene-BCB.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	192	192	[cSt]
Thickness	2.50 - 5.00 microns	0.0984 - 0.197 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	78.0 - 96.0 MPa	11300 - 13900 psi	
Elongation at Break	5.5 - 10.5 %	5.5 - 10.5 %	
Tensile Modulus	2.70 - 3.10 GPa	392 - 450 ksi	
Poissons Ratio	0.34	0.34	
Shear Modulus	1.01 - 1.16 GPa	146 - 168 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 µm/m-°C @Temperature 20.0 °C	23.3 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft²-°F	
Glass Transition Temp, Tg	>= 350 °C	>= 662 °F	
Decomposition Temperature	350 °C	662 °F	1.7% weight loss per hour

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+19 ohm-cm	1.00e+19 ohm-cm	
Dielectric Constant	2.65 @Frequency 1.00e+9 - 2.00e+10 Hz	2.65 @Frequency 1.00e+9 - 2.00e+10 Hz	
Dielectric Strength	530 kV/mm	13500 kV/in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.00080	0.00080	

Descriptive Properties	Value	Comments
Leakage Current A/cm²	0.00000000047	at 1.0 MV/cm²
Stress on Si MPa, Min	26 - 30	

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