

Dow CYCLOTENE™ XU35075 Advanced Electronic Resins (PhotoBisbenzocyclobutene BCB)

Category : Polymer

Material Notes:

CYCLOTENE™ XU35075 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-XU35075-Advanced-Electronic-Resins-PhotoBisbenzocyclobutene-BCB.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	1950	1950	[cSt]
Thickness	15.0 - 30.0 microns	0.591 - 1.18 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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	23.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft ² - $^\circ\text{F}$	
Glass Transition Temp, Tg	$\geq 350\text{ }^\circ\text{C}$	$\geq 662\text{ }^\circ\text{F}$	
Decomposition Temperature	350 $^\circ\text{C}$	662 $^\circ\text{F}$	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	2.65	
	@Frequency 1.00e+9 - 2.00e+10 Hz	@Frequency 1.00e+9 - 2.00e+10 Hz	
Dielectric Strength	530 kV/mm	13500 kV/in	

Designation Factor Electrical Properties	0.00080 Metric	0.00080 English	Comments
Descriptive Properties	Value		Comments
Leakage Current A/cm ²	0.00000000047		at 1.0 MV/cm²
Stress on Si MPa, Min	26 - 30		

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