UBE UPIMOL® SA201 Heat-Resistant Polyimide Shape

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Description: UPIMOL SA201 is an excellent heat-resistant polyimide shape, based on Biphenyl tetracarboxilic dianhydride(BPDA) originally developed by UBE. UPIMOL SA201 can save costs, and suit various applications.Applications: Semiconductor production equipment partsLCD panel production equipment partsVacuum equipment partsPrecisely processed partsHeat and chemical resistant gaskets and sealing materialsFeatures: Super high heat resistance (Heat distortion temperature: 486°C)Suitable for high vacuum conditionGood processabilityVery low impuritiesInformation provided by UBE.

Order this product through the following link:
http://www.lookpolymers.com/polymer_UBE-UPIMOL-SA201-Heat-Resistant-Polyimide-Shape.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 - 1.34 g/cc	1.32 - 1.34 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	ASTM D785
Tensile Strength, Ultimate	72.0 MPa	10400 psi	ASTM D638
Elongation at Break	4.4 %	4.4 %	ASTM D638
Flexural Strength	109 MPa	15800 psi	ASTM D790
Flexural Modulus	4.30 GPa	624 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 25.0 - 450 °C	27.8 µin/in-°F @Temperature 77.0 - 842 °F	ASTM E233
Maximum Service Temperature, Air	486 °C	907 °F	Heat Distortion Temp, Load Unknown; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.10e+15 ohm-cm	7.10e+15 ohm-cm	ASTM D257
Surface Resistance	1.60e+15 ohm	1.60e+15 ohm	ASTM D257
Dielectric Constant	3.51 @Frequency 1e+6 Hz	3.51 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	12.7 kV/mm @Temperature 25.0 °C	323 kV/in @Temperature 77.0 °F	Breakdown Voltage; ASTM D149

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.0031 @Frequency 1e+6 Hz	0.0031 @Frequency 1e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Vacuum Degassing	3.3 x 10^{-6}Torr x l/sec x cm^2	TDS Analysis at 300°C
	4.5 x 10^{-6}Torr x l/sec x cm^2	TDS Analysis at 200°C

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