

Polyplastics Freqtis® C0511A (PPS/LCP), Molding Compound

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP) , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS); Molded

Material Notes:

Both base resins (PPS and LCP) exhibit excellent heat resistance, dimensional stability and molding processability. Therefore Freqtis® is widely used for surface mounted electronic components. In addition, these compounds have characteristics appropriate for high-frequency device materials on account of their low dielectric losses in high frequency regions. FREQTIS® molding compounds allow dielectric constant control through compounding with a high dielectric constant ceramic developed independently by Otsuka Chemical. p>Information provided by PolyPlastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastics-Freqtis-C0511A-PPSLCP-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Flexural Strength	180 MPa	26100 psi	Flexural Strain: 3.1%; ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.0	5.0	Volumetric method
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0020	0.0020	Perturbation method by cavity resonator
	@Frequency 3.00e+9 Hz	@Frequency 3.00e+9 Hz	

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