

Premix Thermoplastics PREFLEX E50 Polyphenylene Ether (PPO/PPE)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

PREFLEX films combine outstanding dielectric properties, good heat stability, low water absorption and chemical resistance in a way not available before. Also rigid boards made of the same material are available and marketed under the name PREBOARD. Thus the same material can also be used in rigid/flex boards. The material lends itself also well for injection moulding and is available for that purpose in granules sold under the name PREPERM. This enables the production of 3D circuit boards. Key features: Low dissipation factorLow dielectric constant Low water absorptionHigh TgZero shrinkage even at 190°C Low CTE in all directionsExcellent adhesion with inks and adhesivesExcellent chemical resistanceMinimum thicknesses below 10 micronsRecyclable and RoHS compliantNon halogen flame retardant grades also availableApplications: Flexible printed circuits, printed electronics, fuel cells and other uses calling for a special film.Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PREFLEX-E50-Polyphenylene-Ether-PPOPPE.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Thickness	50.0 microns	1.97 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	35 %	35 %	
Film Elongation at Break, TD	9.0 %	9.0 %	
Film Tensile Strength at Break, MD	63.0 MPa	9140 psi	
Film Tensile Strength at Break, TD	50.0 MPa	7250 psi	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	210 °C	410 °F	
Shrinkage, MD	1.0 %	1.0 %	
	0.00 %	0.00 %	
	@Temperature 190 °C, Time 7200 sec	@Temperature 374 °F, Time 2.00 hour	
Shrinkage, TD	0.10 %	0.10 %	
	0.00 %	0.00 %	
	@Temperature 200 °C, Time 600 sec	@Temperature 392 °F, Time 0.167 hour	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.55	2.55	
	@Frequency 1.00e+9 - 1.00e+10 Hz	@Frequency 1.00e+9 - 1.00e+10 Hz	
Dissipation Factor	0.00050	0.00050	
	@Frequency 1.00e+9 - 1.00e+10 Hz	@Frequency 1.00e+9 - 1.00e+10 Hz	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	

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