

Premix Thermoplastics PRETECH Halogen-free Engineering Thermoplastics

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Halogen-free PRETECH engineering thermoplastics enable environmentally friendly and cost efficient V-0 product solutions with excellent mechanical and electrical properties. PRETECH combines high thermal resistance with exquisite dielectric properties. This makes it optimal choice e.g. for demanding under the hood applications. Halogen-Free Eco-Friendly answer for industry's needs: Environmental awareness and standards are guiding electronics industry towards green product solutions. With PRETECH the strict material requirements set by legislation and directives can be complied. PRETECH contains a unique combination of properties; high temperature resistance and exceptionally good mechanical properties. Excellent impact strength enables engineering of robust devices. The density of the material is very low and the advantage can be turned into lighter electronical devices. PRETECH for cables & electronics: Halogen free flame retardant UL 94-V0 Very high HDT 185 °C Very high impact strength Excellent dielectric strength Low density Unreinforced material Low water absorption CTI 200 V RoHS compliant Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRETECH-Halogen-free-Engineering-Thermoplastics.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength	45.0 MPa	6530 psi	ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	
	25.0 kJ/m ²	11.9 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
	NB	NB	ISO 180
	@Thickness 4.00 mm, Temperature -20.0 °C	@Thickness 0.157 in, Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	75/Method Bf
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	75/Method Af
Glass Transition Temp, Tg	200 °C	392 °F	ISO 11357
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.55	2.55	
Dissipation Factor	0.00070	0.00070	
Comparative Tracking Index	200 V	200 V	ISO IEC60112

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