

Eurostar Starflam PW0042E PA6, 20% Mineral Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Mineral Filled

Material Notes:

PW0042E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Mineral Reinforced, Polyamide 6 Injection Molding Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-PW0042E-PA6-20-Mineral-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Time 86400 sec	0.0050 - 0.0080 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	6.40 GPa	928 ksi	1 mm/min; ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
UL RTI, Mechanical with Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
UL RTI, Mechanical without Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	IEC 60695-11-10

Thermal Properties	Metric	English	Comments
Glow Wire Test			IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 250 °C	464 - 482 °F	Zone 1
Middle Barrel Temperature	250 - 260 °C	482 - 500 °F	Zone 2
Front Barrel Temperature	250 - 270 °C	482 - 518 °F	Zone 3
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.20 %	0.20 %	

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