

Eurostar Starflam PK0052E PA6, 25% Mineral Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

Material Notes:

PK0052E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Mineral Filled, Polyamide 6 Injection Molding (also known as PM3520Z222 or PA 25E6 U9 Z22) 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-PK0052E-PA6-25-Mineral-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Time 86400 sec	0.0040 - 0.0070 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	6.20 GPa	899 ksi	1 mm/min; ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	5.10 GPa	740 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	65.0 °C @Thickness 0.800 mm	149 °F @Thickness 0.0315 in	
UL RTI, Mechanical with Impact	65.0 °C @Thickness 0.800 mm	149 °F @Thickness 0.0315 in	
UL RTI, Mechanical without Impact	65.0 °C @Thickness 0.800 mm	149 °F @Thickness 0.0315 in	

Thermal Properties	V-2 Metric	V-2 English	Comments 11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Comparative Tracking Index	450 V	450 V	IEC 60112

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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