

Eurostar Starflam RF0055E PA66/6, 25% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 30% Glass Fiber Reinforced

Material Notes:

Starflam RF0055E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 66/6 Injection Molding Resin (also known as RF1005Z250EM) 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-RF0055E-PA666-25-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.80 GPa	1420 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	8.40 GPa	1220 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	210 °C @Thickness 3.00 mm	410 °F @Thickness 0.118 in	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	65.0 °C @Thickness 1.00 mm	149 °F @Thickness 0.0394 in	ALL
	65.0 °C @Thickness 1.20 mm	149 °F @Thickness 0.0472 in	ALL
	65.0 °C	149 °F	ALL

Thermal Properties	Metric @Thickness 1.50 - 1.65 mm	English @Thickness 0.0591 - 0.0650 in	Comments
	65.0 °C	149 °F	NC
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	ALL
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	65.0 °C	149 °F	ALL
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	65.0 °C	149 °F	ALL
	@Thickness 1.50 - 1.65 mm	@Thickness 0.0591 - 0.0650 in	
	65.0 °C	149 °F	NC
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	ALL
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	65.0 °C	149 °F	ALL
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	65.0 °C	149 °F	ALL
	@Thickness 1.50 - 1.65 mm	@Thickness 0.0591 - 0.0650 in	
	65.0 °C	149 °F	NC
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-1	V-1	ALL; IEC 60695-11-10
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-0	V-0	ALL; IEC 60695-11-10
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	V-0	V-0	ALL; IEC 60695-11-10
	@Thickness 1.50 - 1.65 mm	@Thickness 0.0591 - 0.0650 in	
	V-0	V-0	NC; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	850 °C	1560 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Thermal Properties	850 °C Metric	1560 °F English	Comments Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 1.50 - 1.65 mm	@Thickness 0.0591 - 0.0650 in	
	850 °C	1560 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC 2

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 1
Middle Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 2
Front Barrel Temperature	270 - 280 °C	518 - 536 °F	Zone 3
Melt Temperature	270 - 280 °C	518 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °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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