Eurostar Starflam RF0057E PA66, 25% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Starflam PF0057E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 66/6 Injection Molding Resin (also known as RF1005Z270EM)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-RF0057E-PA66-25-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in³	ISO 1183
Water Absorption	0.20 % @Temperature 23.0 °C, Time 86400 sec	0.20 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Moisture Absorption	2.64 % @Temperature 23.0 °C	2.64 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.015 - 0.025 cm/cm @Time 86400 sec	0.015 - 0.025 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm @Time 86400 sec	0.010 - 0.012 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	9.40 GPa	1360 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m²	3.33 ft-lb/in²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m²	21.4 ft-lb/in²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	240 °C @Thickness 3.00 mm	464 °F @Thickness 0.118 in	IEC 60695-10-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	Flat, 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	65.0 °C @Thickness 0.400 mm	149 °F @Thickness 0.0157 in	ALL
	140 °C @Thickness 0.900 mm	284 °F @Thickness 0.0354 in	BK
	140 °C @Thickness 0.800 mm	284 °F @Thickness 0.0315 in	ALL
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	ALL
	140 °C @Thickness 1.60 mm	284 °F @Thickness 0.0630 in	ALL
	140 °C @Thickness 2.00 mm	284 °F @Thickness 0.0787 in	ALL
	140 °C @Thickness 3.00 mm	284 °F @Thickness 0.118 in	ALL
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	NC
UL RTI, Mechanical with Impact	65.0 °C @Thickness 0.400 mm	149 °F @Thickness 0.0157 in	ALL
	110 °C @Thickness 0.900 mm	230 °F @Thickness 0.0354 in	BK
	110 °C @Thickness 0.800 mm	230 °F @Thickness 0.0315 in	ALL
	110 °C @Thickness 1.50 mm	230 °F @Thickness 0.0591 in	ALL
	110 °C @Thickness 1.60 mm	230 °F @Thickness 0.0630 in	ALL
	110 °C @Thickness 2.00 mm	230 °F @Thickness 0.0787 in	ALL
	110 °C @Thickness 3.00 mm	230 °F @Thickness 0.118 in	ALL

Thermal Properties	Metric	English	Comments
	110 °C @Thickness 1.50 mm	230 °F @Thickness 0.0591 in	NC
UL RTI, Mechanical without Impact	65.0 °C @Thickness 0.400 mm	149 °F @Thickness 0.0157 in	ALL
	140 °C @Thickness 0.900 mm	284 °F @Thickness 0.0354 in	BK
	140 °C @Thickness 0.800 mm	284 °F @Thickness 0.0315 in	ALL
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	ALL
	140 °C @Thickness 1.60 mm	284 °F @Thickness 0.0630 in	ALL
	140 °C @Thickness 2.00 mm	284 °F @Thickness 0.0787 in	ALL
	140 °C @Thickness 3.00 mm	284 °F @Thickness 0.118 in	ALL
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	NC
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	ALL
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	ALL
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	ALL
	V-0 - 5VB @Thickness 3.00 mm	V-0 - 5VB @Thickness 0.118 in	ALL
	V-0 - 5VB @Thickness 1.50 mm	V-0 - 5VB @Thickness 0.0591 in	NC
	V-0 - 5VA @Thickness 0.900 mm	V-0 - 5VA @Thickness 0.0354 in	BK

Thermal Properties	Metric	English	Comments
	V-0 - 5VA @Thickness 1.60 mm	V-0 - 5VA @Thickness 0.0630 in	
	V-0 - 5VA @Thickness 2.00 mm	V-0 - 5VA @Thickness 0.0787 in	ALL
Glow Wire Test	775 °C @Thickness 0.900 mm	1430 °F @Thickness 0.0354 in	BK, Glow-Wire Ignition; IEC 60695-2-13
	775 °C @Thickness 0.400 mm	1430 °F @Thickness 0.0157 in	ALL, Glow-Wire Ignition; IEC 60695-2-13
	775 °C @Thickness 0.800 mm	1430 °F @Thickness 0.0315 in	ALL, Glow-Wire Ignition; IEC 60695-2-13
	775 °C @Thickness 1.50 mm	1430 °F @Thickness 0.0591 in	ALL, Glow-Wire Ignition; IEC 60695-2-13

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Dielectric Strength	16.0 kV/mm	406 kV/in	
Comparative Tracking Index	600 V	600 V	PLC 0; IEC 60112
Hot Wire Ignition, HWI	>= 120 sec @Thickness 0.400 mm	>= 120 sec @Thickness 0.0157 in	All colors; PLC 0
	>= 120 sec @Thickness 0.800 mm	>= 120 sec @Thickness 0.0315 in	All colors; PLC 0
	>= 120 sec @Thickness 1.50 mm	>= 120 sec @Thickness 0.0591 in	All colors; PLC 0
	>= 120 sec @Thickness 1.60 mm	>= 120 sec @Thickness 0.0630 in	All colors; PLC 0
	>= 120 sec @Thickness 2.00 mm	>= 120 sec @Thickness 0.0787 in	All colors; PLC 0
	>= 120 sec @Thickness 3.00 mm	>= 120 sec @Thickness 0.118 in	All colors; PLC 0
	>= 120 sec @Thickness 0.900 mm	>= 120 sec @Thickness 0.0354 in	BK; PLC 0

Electrical Properties	Metric	English	Comments
	>= 120 sec @Thickness 1.50 mm	>= 120 sec @Thickness 0.0591 in	NC; PLC 0
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.800 mm	>= 120 arcs @Thickness 0.0315 in	All colors; PLC 0
	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	All colors; PLC 0
	>= 120 arcs @Thickness 1.60 mm	>= 120 arcs @Thickness 0.0630 in	All colors; PLC 0
	>= 120 arcs @Thickness 2.00 mm	>= 120 arcs @Thickness 0.0787 in	All colors; PLC 0
	>= 120 arcs @Thickness 3.00 mm	>= 120 arcs @Thickness 0.118 in	All colors; PLC 0
	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	NC; PLC 0
	>= 120 arcs @Thickness 0.900 mm	>= 120 arcs @Thickness 0.0354 in	BK; PLC 0
	>= 120 arcs @Thickness 0.400 mm	>= 120 arcs @Thickness 0.0157 in	All colors; PLC 0

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