

Eurostar Starflam M10004A PP, Flame Retardant, Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Starflam M10004A is an Unfilled Halogen Free Flame Retardant PP injection Molding ResinInformation provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-M10004A-PP-Flame-Retardant-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	50 mm/min; ISO 527
Elongation at Yield	4.2 %	4.2 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	44.0 MPa	6380 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; 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)	15.0 kJ/m ²	7.14 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	108 µm/m-°C	60.0 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	108 µm/m-°C	60.0 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
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Zone 1 Processing Properties	180 - 190 °C Metric	356 - 374 °F English	Comments
Zone 2	190 - 200 °C	374 - 392 °F	
Zone 3	190 - 200 °C	374 - 392 °F	
Melt Temperature	190 - 200 °C	374 - 392 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	70.0 °C @Time 10800 sec	158 °F @Time 3.00 hour	

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