

Eurostar Starflam M10009XP PP, Flame Retardant, Injection Molding

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

Material Notes:

Starflam M10009XP is an Unfilled Flame Retardant Polypropylene (Copolymer) Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-M10009XP-PP-Flame-Retardant-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ISO 1183
Water Absorption	0.010 % @Temperature 23.0 °C, Time 86400 sec	0.010 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 4.00 mm	0.016 in/in @Thickness 0.157 in	E2P method
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527
Elongation at Break	125 %	125 %	ISO 527
Tensile Modulus	1.40 GPa	203 ksi	50 mm/min; ISO 527
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
Izod Impact, Unnotched (ISO)	>= 98.0 kJ/m ²	>= 46.6 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 1.60 mm	1560 °F @Thickness 0.0630 in	IEC 60695-2-12

Processing Properties	Metric	English	Comments
Zone 1	180 - 190 °C	356 - 374 °F	
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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