

Starflam UF0033

Polyphthalamide
Eurostar Engineering Plastics

Message:

Starflam UF0033 is a Mineral Flame Retardant Halogen Free and Red Phosphorous Free, Glass Reinforced, Polyphthalamide Injection Molding Resin.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant 2		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	125	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	9900	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	> 200	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	280 to 300	°C	
Middle Temperature	290 to 310	°C	

Front Temperature	295 to 315	°C
Processing (Melt) Temp	305 to 315	°C
Mold Temperature	130 to 150	°C

NOTE		
1.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	
4.	80*10*4	
5.	80*10*4	

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