

Starflam PF0057E

Polyamide 6
Eurostar Engineering Plastics

Message:

Starflam PF0057E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin (also known as PF1005Z270)

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
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	1.39	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 24 hr	0.90 to 1.3	%	
Flow : 24 hr	0.10 to 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2/1
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ¹ (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ² (23°C)	54	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 64.0 mm Span)	205	°C	ISO 75-2/Af
Ball Pressure Test ⁴ (200°C)	Pass		IEC 60695-10-2
Thermal Conductivity	0.30	W/m/K	ISO 8302
RTI Elec	140	°C	UL 746
RTI Imp	105	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
High Amp Arc Ignition (HAI)	PLC 0		UL 746

Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Flammability Index (0.800 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	
1.50 mm	775	°C	
3.00 mm	800	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	250 to 270	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 90.0	°C	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4		
4.	Approximate maximum		

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