

Starflam BFR552Y3

Polyamide 6
Eurostar Engineering Plastics

Message:
Starflam BFR552Y3 is a Halogen and Red Phosphorous Free Flame Retardand, Glass Fiber Reinforced, Mineral Filled Polyamide 6 Injection Molding Resin

General Information			
UL YellowCard	E340012-100750685		
Filler / Reinforcement	Glass\Mineral		
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	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.40 to 0.60	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
Flexural Modulus ²	5500	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	2.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	25	kJ/m ²	
23°C	30	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	3.0	kJ/m ²	
-20°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	210	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	180	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	205	°C	ISO 306/B50
--	207	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.0E-5	cm/cm/°C	
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.40		
60 Hz	3.40		
1 MHz	3.30		
Dissipation Factor			IEC 60250
50 Hz	5.7E-3		
60 Hz	5.7E-3		
1 MHz	0.014		
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	24	%	ISO 4589-2
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.	Tensile Bar		

2.	2.0 mm/min
3.	80*10*4 sp=62mm
4.	80*10*4 sp=62mm
5.	80*10*4
6.	120*10*4
7.	125°C ±2°C
8.	ROA

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