

Starflam® BFR552Y3

polyamide 6



Starflam BFR552Y3 is a glass and mineral filled, flame retardant PA6 for injection molded applications. The material is halogen free and red phosphorus free.

General

Regional Availability	• North America	• Europe
Additive	• Flame Retarding Agent	• Release agent
Features	• Flame Retardant	• Good Dimensional Stability
Agency Rating	• ISO, 1043 PA6 (GF+MD)20 FR(30)	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical

	dry	cond.	Unit	Test Standard
Density	1.34	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.2	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	5800	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	85	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.8	-	%	ISO 527-2
Flexural Modulus (23°C)	5500	-	MPa	ISO 178
Flexural Strength (23°C)	145	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3	-	kJ/m ²	
-30°C	2	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	30	-	kJ/m ²	
-30°C	25	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	4	-	kJ/m ²	
-40°C	3	-	kJ/m ²	

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Thermal	Value	Unit	Test Standard
RTI Elec			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Imp			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Str			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	

Electrical	Value	Test Standard
High Amp Arc Ignition (HAI)		UL 746
0.750 mm	PLC 0	
3.00 mm	PLC 0	
Hot-wire Ignition (HWI)		UL 746
0.750 mm	PLC 3	

Flammability	Value	Test Standard
Flammability		UL 94
0.750 mm	V-2	
3.00 mm	V-2	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	240 - 250	°C
Middle Temperature	250 - 260	°C
Front Temperature	250 - 270	°C
Processing (Melt) Temperature	250 - 270	°C
Mold Temperature	50 - 90	°C

