

## Eurostar Starflam BFR552Y6 PA6, Mineral/Glass Fiber Filled, Flame Retardant, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Mineral Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

Starflam BFR552Y6 is a Halogen and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Mineral Filled, Polyamide 6, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Starflam-BFR552Y6-PA6-MineralGlass-Fiber-Filled-Flame-Retardant-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Starflam-BFR552Y6-PA6-MineralGlass-Fiber-Filled-Flame-Retardant-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	1.20 % @Temperature 23.0 °C	1.20 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	110	110	ISO 2039-2
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
Flexural Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	5.50 GPa	798 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup> @Temperature -20.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	80x10x4; ISO 180/1A
	3.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup> @Temperature -30.0 °C	11.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	3.00 J/cm <sup>2</sup> @Temperature 23.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.310 J/cm <sup>2</sup>	0.122 ft-lb/in <sup>2</sup>	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	205 °C	401 °F	B/50; ISO 306
	207 °C	405 °F	
UL RTI, Electrical	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	3.4	3.4	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	17.0 kV/mm	432 kV/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0057	0.0057	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.014	0.014	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	500 V	500 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	240 - 250 °C	464 - 482 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 270 °C	482 - 518 °F	
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China