

Starflam® RF0052E

polyamide 66



Starflam RF0052E is a 25% glass filled, flame retardant PA66 + PA6 for injection molded applications. The material is halogen free and red phosphorus free.

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Flame Retardant		
Agency Rating	• ISO, 1043 PA66+PA6 GF25 FR(30)		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.37	-	g/cm ³	ISO 1183

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8100	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	120	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	-	%	ISO 527-2
Flexural Modulus (23°C)	6700	-	MPa	ISO 178
Flexural Strength (23°C)	185	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	6	-	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength, +23°C	40	-	kJ/m ²	ISO 180/1U

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	215	-	°C	
0.45 MPa, Unannealed	251	-	°C	
RTI Elec				UL 746
0.800 mm	65		°C	
1.60 mm	65		°C	
3.20 mm	65		°C	
RTI Imp				UL 746
0.800 mm	65		°C	
1.60 mm	65		°C	

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3.20 mm	65	°C	
RTI Str			UL 746
0.800 mm	65	°C	
1.60 mm	65	°C	
3.20 mm	65	°C	

Electrical	Value	Unit	Test Standard
Arc Resistance (3.00 mm)	5	-	ASTM D 495
Comparative Tracking Index (3.00 mm)	400 - 599	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
0.800 mm	PLC 1	-	
1.60 mm	PLC 0	-	
3.20 mm	PLC 0	-	
High Voltage Arc Tracking Rate (HVTR), 3.00 mm	PLC 2	-	UL 746
Hot-wire Ignition (HWI)			UL 746
0.800 mm	PLC 4	-	
1.60 mm	PLC 1	-	
3.20 mm	PLC 0	-	

Flammability	Value	Test Standard
Flammability		UL 94
0.800 mm	V-2	
1.60 mm	V-2	
3.20 mm	V-2	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	265 - 275	°C
Middle Temperature	265 - 275	°C
Front Temperature	270 - 280	°C
Processing (Melt) Temperature	270 - 280	°C
Mold Temperature	60 - 100	°C