Starflam® RF0052E

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	• Mold Release
Features	• Flame Retardant	• Heat Stabilized	
Agency Ratings	• ISO 1043 PA66+PA6 GF25 FR(30)		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA66-GF25 FR		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.17E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	17400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.7	%	ISO 527-2
Flexural Modulus (73°F)	972000	psi	ISO 178
Flexural Stress (73°F)	26800	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	2.9	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	19	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	484	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	419	°F	ISO 75-2/A
RTI Elec			UL 746B
0.031 in	149	°F	
0.06 in	149	°F	
0.13 in	• 149 • 149 • 149	°F	
RTI Imp			UL 746B
0.031 in	149	°F	
0.06 in	149	°F	
RTI Str			UL 746B
0.031 in	149	°F	
0.06 in	149	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Arc Resistance (0.118 in)	PLC 5		ASTM D495
Comparative Tracking Index (0.118 in)	400 to 599	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746A
0.03 in	PLC 1		
0.06 in	PLC 0		

0.13 in	PLC 0	
High Voltage Arc Tracking Rate (HVTR) (0.118 in)	PLC 2	UL 746A
Hot-wire Ignition (HWI)		UL 746A
0.03 in	PLC 4	
0.06 in	PLC 1	
0.13 in	PLC 0	

Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.031 in	V-2		
0.06 in	V-2		
0.13 in	V-2		

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	509 to 527	°F
Middle Temperature	509 to 527	°F
Front Temperature	518 to 536	°F
Processing (Melt) Temp	518 to 536	°F
Mold Temperature	140 to 212	°F

Notes

[1] Typical properties: these are not to be construed as specifications.