

Starflam® RF0069

 Ascend Performance Materials Operations LLC - *Polyamide 66*
General Information
Product Description

Starflam RF0069 is a flame retardant, 30% glass fiber reinforced, PA66 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant • Heat Stabilizer • Mold Release
Features	• Flame Retardant • Halogenated • Heat Stabilized
UL File Number	• E70062
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30 FR

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	4.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.38E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	23900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.0	%	ISO 527-2
Flexural Modulus (73°F)	1.35E+6	psi	ISO 178
Flexural Stress (73°F)	27600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-22°F	3.3	ft·lb/in ²	
73°F	3.8	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (73 to 131°F, 0.0787 in)	1.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	4.0E-5	in/in/°F	ISO 11359-2
RTI Elec			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (0.118 in)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-0		
0.12 in	V-0		



Glow Wire Flammability Index (0.08 in)	1760 °F	IEC 60695-2-12
Oxygen Index	31 %	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	518 to 554	°F
Middle Temperature	518 to 536	°F
Front Temperature	518 to 536	°F
Processing (Melt) Temp	518 to 536	°F
Mold Temperature	158 to 212	°F

Notes

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

