

Starflam® RX06082

Ascend Performance Materials Operations LLC - *Polyamide 66/6 Copolymer*

General Information

Product Description

Starflam RX06082 is a halogen free and red phosphorous free flame retardant, 20% glass fiber reinforced ,PA66 / PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant • Heat Stabilizer • Mold Release
Features	• Bromine Free • Good Surface Finish • Heat Stabilized • Flame Retardant • Halogen Free
UL File Number	• E70062
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66/6-GF20 FR

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	16100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.6	%	ISO 527-2
Flexural Modulus (73°F)	1.02E+6	psi	ISO 178
Flexural Stress (73°F)	23400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	3.8	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	19	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	417	°F	ISO 75-2/A
RTI Elec			UL 746B
0.06 in	149	°F	
0.08 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.06 in	149	°F	
0.08 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.06 in	149	°F	
0.08 in	149	°F	
0.12 in	149	°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.08 in	•	V-0	
	•	5VA	



0.12 in	• •	V-0 5VA
Glow Wire Flammability Index		IEC 60695-2-12
0.06 in		1760 °F
0.12 in		1760 °F
Glow Wire Ignition Temperature		IEC 60695-2-13
0.06 in		1430 °F
0.12 in		1470 °F

Processing Information		
Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	500 to 518	°F
Middle Temperature	509 to 536	°F
Front Temperature	500 to 536	°F
Processing (Melt) Temp	509 to 527	°F
Mold Temperature	158 to 194	°F

Notes

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

