Starflam® X-Protect RX07034

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Starflam X-Protect RX07034 is a 30% glass fiber reinforced PA66 + PA6 compound. Developed for use in Arc chambers and other injection molding applications, it has low smoke and easy processing.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	• Mold Release
Features	• Flame Retardant • Good Electrical Properties	• Heat Stabilized • Lubricated	
Agency Ratings	• ISO 1043 PA66+PA6 X GF30		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA66-(X+GF)30		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 73°F)	24700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.3	%	ISO 527-2
Flexural Modulus (73°F)	1.38E+6	psi	ISO 178
Flexural Stress (73°F)	32600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	29	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	415	°F	ISO 75-2/A
RTI Elec			UL 746B
0.031 in	284	°F	
0.06 in	284	°F	
RTI Imp			UL 746B
0.031 in	212	°F	
0.06 in	212	°F	
RTI Str			UL 746B
0.031 in	284	°F	
0.06 in	284	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746A
0.03 in	PLC 0		
0.06 in	PLC 0		
Hot-wire Ignition (HWI)			UL 746A
0.03 in	PLC 2		
0.06 in	PLC 1		
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating		UL 94
0.031 in	HB	
0.06 in	HB	
Glow Wire Flammability Index (0.06 in)	1340 °F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.06 in)	1380 °F	IEC 60695-2-13

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	< 140	°F
Drying Time	< 4.0	hr
Suggested Max Moisture	< 0.20	%
Rear Temperature	500 to 536	°F
Middle Temperature	518 to 536	°F
Front Temperature	482 to 518	°F
Nozzle Temperature	518 to 536	°F
Processing (Melt) Temp	500 to 536	°F
Mold Temperature	104 to 194	°F