Starflam® PX07037

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Starflam PX07037 is an unfilled, halogen free and red phosphorous free, flame retardant, PA6 for injection molded applications (IR laser marking grade).

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Flame Retardant	• Heat Stabilizer	• Mold Release
Features	• Bromine Free • Flame Retardant	• Halogen Free • Heat Stabilized	• Laser Markable
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6 FR		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	10700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	7.3	%	ISO 527-2
Flexural Modulus (73°F)	406000	psi	ISO 178
Flexural Stress (73°F)	13800	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	24	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
RTI Elec			UL 746B
0.030 in	248	°F	
0.06 in	248	°F	
0.12 in	248	°F	
RTI Imp			UL 746B
0.030 in	149	°F	
0.06 in	167	°F	
0.12 in	167	°F	
RTI Str			UL 746B
0.030 in	185	°F	
0.06 in	185	°F	
0.12 in	185	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
High Amp Arc Ignition (HAI)			UL 746A
0.030 in	PLC 0		
0.06 in	PLC 0		
0.12 in	PLC 0		
Hot-wire Ignition (HWI)			UL 746A
0.030 in	PLC 3		
0.06 in	PLC 2		

0.12 in	PLC 2		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	V-2		
0.06 in	V-2		
0.12 in	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.030 in	1760	°F	
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1340	°F	
0.06 in	1380	°F	
0.12 in	1380	°F	

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	464 to 482	°F
Middle Temperature	482 to 500	°F
Front Temperature	482 to 518	°F
Processing (Melt) Temp	482 to 518	°F
Mold Temperature	122 to 194	°F

Notes

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