

Starflam® PX07037

polyamide 6

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

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Bromine Free • Laser Markable	• Flame Retardant	• Halogen Content, None
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.22	-	g/cm ³	ISO 1183

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Stress (Yield, 23°C)	74	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	7.3	-	%	ISO 527-2
Flexural Modulus (23°C)	2800	-	MPa	ISO 178
Flexural Strength (23°C)	95	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	4	-	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength, +23°C	50	-	kJ/m ²	ISO 180/1U

Thermal

	Value	Unit	Test Standard
RTI Elec			UL 746
0.750 mm	120	°C	
1.60 mm	120	°C	
3.00 mm	120	°C	
RTI Imp			UL 746
0.750 mm	65	°C	
1.60 mm	75	°C	
3.00 mm	75	°C	
RTI Str			UL 746
0.750 mm	85	°C	
1.60 mm	85	°C	

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3.00 mm

85

°C

Electrical	Value	Test Standard
High Amp Arc Ignition (HAI)		UL 746
0.750 mm	PLC 0	
1.60 mm	PLC 0	
3.00 mm	PLC 0	
Hot-wire Ignition (HWI)		UL 746
0.750 mm	PLC 3	
1.60 mm	PLC 2	
3.00 mm	PLC 2	

Flammability	Value	Unit	Test Standard
Flammability			UL 94
0.750 mm	V-2	-	
1.60 mm	V-2	-	
3.00 mm	V-2	-	
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.60 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	725	°C	
1.60 mm	750	°C	
3.00 mm	750	°C	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	240 - 250	°C
Middle Temperature	250 - 260	°C
Front Temperature	250 - 270	°C
Processing (Melt) Temperature	250 - 270	°C
Mold Temperature	50 - 90	°C