Starflam® PX06020

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Starflam PX06020 is an unfilled, halogen free and red phosphorous free, flame retardant, PA6 for injection molded applications.

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	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6 FR		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	493000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	11300	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.7	%	ISO 527-2
Tensile Strain (Break, 73°F)	5.6	%	ISO 527-2
Flexural Modulus (73°F)	450000	psi	ISO 178
Flexural Stress (73°F)	15200	psi	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	374	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	167	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F, 0.0787 in)	4.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	4.4E-5	in/in/°F	ISO 11359-2
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**
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
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) (0.030 in)	PLC 4		UL 746A

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.016 in	V-0		
0.030 in	V-0		
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index (0.030 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.030 in)	1340	°F	IEC 60695-2-13
Oxygen Index	32	%	ISO 4589-2

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.