

Starflam® P10002EQ

Ascend Performance Materials Operations LLC - Polyamide 6

General Information

Product Description

Starflam P10002EQ is an unfilled, halogen free, 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	• Halogen Free	
	• Flame Retardant	• Heat Stabilized	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6 FR		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage - Flow (73°F, 0.0787 in)	1.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 73°F)	10400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	5.0	%	ISO 527-2
Flexural Modulus (73°F)	450000	psi	ISO 178
Flexural Stress (73°F)	14500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	2.4	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	12	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1650	°F	
0.06 in	1430	°F	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	446 to 464	°F
Middle Temperature	455 to 473	°F
Front Temperature	464 to 500	°F
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	140 to 176	°F

