

Starflam® P10003

polyamide 6



Starflam P10003 is a mineral filled, flame retardant PA6 for injection molded applications. The material is halogen free and red phosphorus free.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Flame Retardant	• Good Electrical Properties	
Agency Rating	• ISO, 1043 PA6 FR(61)		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.50	-	g/cm ³	ISO 1183
Water Absorption, 23°C, 24 hr	0.9	*	%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	6700	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	71	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	-	%	ISO 527-2
Flexural Modulus (23°C)	6200	-	MPa	ISO 178
Flexural Strength (23°C)	122	-	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	35	-	kJ/m ²	ISO 180/1U

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	94	-	°C	
0.45 MPa, Unannealed	179	-	°C	

Flammability

	Value	Test Standard
Flammability		UL 94
0.800 mm	V-2	

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Injection	Value	Unit
Drying Temperature	75 - 85	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	245 - 255	°C
Middle Temperature	250 - 260	°C
Front Temperature	250 - 260	°C
Processing (Melt) Temperature	255 - 265	°C
Mold Temperature	55 - 95	°C

