

Starflam® M10004

Polypropylene



Starflam M10004 is an unfilled halogen free flame retardant PP for injection molded applications (also known as Starflam M1000Z240C).

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Chemical Resistant	• Flame Retardant	• Halogen Content, None
Agency Rating	• ISO, 1043 PP FR(40)		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.01	-	g/cm ³	ISO 1183

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	1500	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	18	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	>50	-	%	ISO 527-2
Flexural Modulus (23°C)	1300	-	MPa	ISO 178
Flexural Strength (23°C)	28	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	-	kJ/m ²	
-30°C	2.5	-	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
+23°C	60	-	kJ/m ²	
-30°C	13	-	kJ/m ²	

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature, 1.80 MPa, Unannealed	50	-	°C	ISO 75-2/A

Flammability

	Value	Unit	Test Standard
Glow Wire Flammability Index			IEC 60695-2-12
1.60 mm	960	°C	

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Injection	Value	Unit
Drying Temperature	70	°C
Drying Time	3	h
Rear Temperature	180 - 190	°C
Middle Temperature	190 - 200	°C
Front Temperature	190 - 200	°C
Processing (Melt) Temperature	190 - 200	°C
Mold Temperature	30 - 50	°C

