

Starflam® M10004

 Ascend Performance Materials Operations LLC - *Polypropylene*

General Information

Product Description

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

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Additive	• Flame Retardant • Heat Stabilizer • Mold Release
Features	• Chemical Resistant • Halogen Free • Flame Retardant • Heat Stabilized
Agency Ratings	• ISO 1043 PP FR(40)
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PP FR

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	218000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	2610	psi	ISO 527-2
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2
Flexural Modulus (73°F)	189000	psi	ISO 178
Flexural Stress (73°F)	4060	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-22°F	1.2	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Unnotched Izod Impact Strength			ISO 180/1U
-22°F	6.2	ft·lb/in ²	
73°F	29	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	122	°F	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (0.06 in)	1760	°F	IEC 60695-2-12

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158	°F
Drying Time	3.0	hr
Rear Temperature	356 to 374	°F
Middle Temperature	374 to 392	°F
Front Temperature	374 to 392	°F
Processing (Melt) Temp	374 to 392	°F
Mold Temperature	86 to 122	°F

