Starflam® M10009AP

Ascend Performance Materials Operations LLC - *Polypropylene*

General Information

Product Description

Starflam M10009AP is an unfilled flame retardant, high fluidity PP-Homopolymer for injection molded applications.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Flame Retardant	• Heat Stabilizer	• Mold Release
Features	• Chemical Resistant • Flame Retardant	• Halogenated • Heat Stabilized	
Agency Ratings	• ISO 1043 PP FR(17)		
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PP FR		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr, 73°F)	0.010	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	5220	psi	ISO 527-2
Tensile Stress (Break, 73°F)	3340	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	7.2	%	ISO 527-2
Flexural Modulus (73°F)	276000	psi	ISO 178
Flexural Stress (73°F)	7400	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	21	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	217	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	135	°F	ISO 75-2/A
RTI Elec (0.06 in)	149	°F	UL 746B
RTI Imp (0.06 in)	149	°F	UL 746B
RTI Str (0.06 in)	149	°F	UL 746B
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	V-2		UL 94
Glow Wire Flammability Index (0.06 in)	1560	°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