

Starflam® M10009AP

Polypropylene



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

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Chemical Resistant	• Flame Retardant	• Halogenated
Agency Rating	• ISO, 1043 PP FR(17)		
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Water Absorption, 23°C, 24 hr	0.01	*	%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Stress (Yield, 23°C)	36	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	23	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	7.2	-	%	ISO 527-2
Flexural Modulus (23°C)	1900	-	MPa	ISO 178
Flexural Strength (23°C)	51	-	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	44	-	kJ/m ²	ISO 180/1U

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	57	-	°C	
0.45 MPa, Unannealed	103	-	°C	
RTI Elec				UL 746
1.60 mm	65		°C	
RTI Imp				UL 746
1.60 mm	65		°C	
RTI Str				UL 746
1.60 mm	65		°C	

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Flammability	Value	Unit	Test Standard
Flammability 1.60 mm	V-2	-	UL 94
Glow Wire Flammability Index 1.60 mm	850	°C	IEC 60695-2-12

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

