

Starflam M10009A

Polypropylene Homopolymer
Eurostar Engineering Plastics

Message:

Starflam M10009A is an Unfilled Flame Retardant Polypropylene (Homo) Injection Molding Resin

General Information			
Features	Flame Retardant		
	Homopolymer		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (4.00 mm)	1.6	%	Internal Method
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	38.0	MPa	
Break	25.0	MPa	
Tensile Strain (Yield)	7.3	%	ISO 527-2/50
Flexural Modulus ¹	1900	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	103	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	57.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.1E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.4E-4	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by E2P)	V-2		UL 94
Glow Wire Flammability Index (1.60 mm)	850	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	

Drying Time	3.0	hr
Rear Temperature	180 to 190	°C
Middle Temperature	190 to 200	°C
Front Temperature	190 to 200	°C
Processing (Melt) Temp	190 to 200	°C
Mold Temperature	30.0 to 50.0	°C

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 |

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