

Maxxam™ FR H6 T/05 H XF V0 NATURAL 70

Polypropylene Homopolymer

PolyOne Corporation

Message:

Maxxam™ FR flame-retardant polyolefin compounds and masterbatches meet stringent flammability performance requirements defined by industry agencies, including Underwriters Laboratories UL 94 V-0, performance ratings.

General Information			
Filler / Reinforcement	Mineral		
Features	Flame Retardant		
	Good Processability		
	Good Stiffness		
	Good Strength		
	Halogen Free		
	High Impact Resistance		
	Medium Flow		
Uses	Consumer Applications		
	Electrical/Electronic Applications		
	General Purpose		
	Household Goods		
	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹ (23°C)	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage ²			ISO 294-4
Across Flow : 23°C	0.80 to 1.2	%	
Flow : 23°C	0.80 to 1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm)	2000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm)	25.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 4.00 mm)	30	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	3.5	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	15	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/A120
Melting Temperature	160 to 165	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		
1.60 to 3.20 mm	V-0		
Glow Wire Flammability Index (1.00 to 3.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 to 3.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	31	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	1.0 to 2.0	hr	
Processing (Melt) Temp	180 to 200	°C	
NOTE			
1.	±0.03		
2.	internal method		

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