Maxxam™ FR H6 T/05 H XF V0 NATURAL 70

Polypropylene Homopolymer

Key Characteristics

Product Description			
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			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
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		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2] (73°F (23°C))	1.07 g/cm³	1.07 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Molding Shrinkage [3]			ISO 294-4
Across Flow : 73°F (23°C)	0.80 to 1.2 %	0.80 to 1.2 %	
Flow : 73°F (23°C)	0.80 to 1.2 %	0.80 to 1.2 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	290000 psi	2000 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	3630 psi	25.0 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	30 %	30 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength (73°F (23°C))	1.7 ft·lb/in²	3.5 kJ/m²	ISO 180
Unnotched Izod Impact Strength (73°F (23°C))	7.1 ft·lb/in²	15 kJ/m²	ISO 180
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	293 °F	145 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	
Vicat Softening Temperature	311 °F	155 °C	ISO 306/A120
Melting Temperature	320 to 329 °F	160 to 165 °C	

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.031 in (0.8 mm)	V-2	V-2	
0.06 to 0.13 in (1.6 to 3.2 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.04 to 0.12 in (1.0 to 3.0 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 to 0.12 in (1.0 to 3.0 mm)	1430 °F	775 °C	
Oxygen Index	31 %	31 %	ISO 4589-2

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 hr
Processing (Melt) Temp	356 to 392 °F	180 to 200 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] ±0.03

[3] internal method

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