



Maxxam™ FR H20 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	• Europe
Features	• Flame Retardant • Good Processability • Good Stiffness • Good Strength • Halogen Free • Heat Stabilized • High Flow
Uses	• Consumer Applications • Electrical/Electronic Applications • General Purpose • Household Goods • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.01 g/cm ³	1.01 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-2/1
Tensile Stress (Yield)	3630 psi	25.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5 %	4.5 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	320 to 329 °F	160 to 165 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature	1430 °F	775 °C	IEC 60695-2-13

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 hr
Rear Temperature	347 to 365 °F	175 to 185 °C
Middle Temperature	356 to 374 °F	180 to 190 °C
Front Temperature	365 to 383 °F	185 to 195 °C
Nozzle Temperature	383 to 392 °F	195 to 200 °C