



Maxxam™ L6 GF/50 Natural 70

Polypropylene Homopolymer

Key Characteristics

Product Description

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Chemically Coupled • Good Processability • Good Stiffness • Good Strength • High Impact Resistance • Medium Flow
Uses	• Appliances • Automotive Applications • Consumer Applications • General Purpose • Industrial Applications
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.32 g/cm ³	1.32 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-2/1
Tensile Stress			
--	15200 psi	105 MPa	ISO 527-2/5
--	16700 psi	115 MPa	ISO 527-2/50
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	4.8 ft·lb/in ²	10 kJ/m ²	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	293 °F	145 °C	ISO 75-2/A
Vicat Softening Temperature	320 °F	160 °C	ISO 306/A120
Melting Temperature	320 to 329 °F	160 to 165 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

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

Injection	Typical Value (English)	Typical Value (SI)
Nozzle Temperature	383 to 392 °F	195 to 200 °C
Mold Temperature	131 to 176 °F	55 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.



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