



# Maxxam™ L6 GF/30 H1 Grey 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, 30% Filler by Weight		
Features	• Chemically Coupled • Good Heat Resistance • Good Processability	• Good Stiffness • Good Strength • Heat Stabilized	• High Impact Resistance • Medium Flow
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.12 g/cm <sup>3</sup>	1.12 g/cm <sup>3</sup>	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			ISO 294-4
Across Flow	0.20 to 0.40 %	0.20 to 0.40 %	
Flow	0.50 to 0.70 %	0.50 to 0.70 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	870000 psi	6000 MPa	ISO 527-2/1
Tensile Stress	10900 psi	75.0 MPa	ISO 527-2/5
Tensile Strain (Yield)	2.5 %	2.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	3.8 ft·lb/in <sup>2</sup>	8.0 kJ/m <sup>2</sup>	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	284 °F	140 °C	ISO 75-2/A
Vicat Softening Temperature	320 °F	160 °C	ISO 306 <sup>2</sup>
Melting Temperature (DSC)	320 to 329 °F	160 to 165 °C	ISO 3146
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 hr	1.0 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

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 120°C/h, A (10N)



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