



Maxxam™ 15 GB/40 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 Bead, 40% Filler by Weight
Features	• Good Processability • Good Stiffness • Good Strength • High Flow
Uses	• Automotive Applications • Construction 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	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 g/10 min	15 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.80 to 1.2 %	0.80 to 1.2 %	
Flow	0.80 to 1.2 %	0.80 to 1.2 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-2/1
Tensile Stress	2900 psi	20.0 MPa	ISO 527-2/5
Tensile Strain (Break)	5.5 %	5.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	1.1 ft·lb/in ²	2.4 kJ/m ²	ISO 180/A

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
Mold Temperature	77 to 131 °F	25 to 55 °C

Notes

¹ Typical values are not to be construed as specifications.