



Maxxam™ PP5420 A1

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	• Africa & Middle East • Europe • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• General Purpose • Homopolymer
Uses	• Automotive Applications • Consumer Applications • Industrial Applications • Construction Applications • General Purpose
Automotive Specifications	• GM GMP.PP.099
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	10 g/10 min	10 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress	10000 psi	69.0 MPa	ISO 527-2
Flexural Modulus	537000 psi	3700 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	4.3 ft-lb/in ²	9.0 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	306 °F	152 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	286 °F	141 °C	ISO 75-2/A

Notes

¹ Typical values are not to be construed as specifications.