



Maxxam™ PP5120 B4

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 • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc\Mineral, 21% Filler by Weight		
Features	• General Purpose	• Homopolymer	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.8 g/10 min	9.8 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)	12 cm³/10min	12 cm³/10min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ² (Yield)	4640 psi	32.0 MPa	ISO 527
Flexural Modulus ³	334000 psi	2300 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	0.97 ft·lb/in²	2.0 kJ/m²	
73°F (23°C)	1.3 ft·lb/in²	2.7 kJ/m²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	275 °F	135 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5 mm/min)

³ 0.079 in/min (2.0 mm/min)