



Maxxam™ PP5930R B1

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
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• General Purpose • Homopolymer
Uses	• Automotive Applications • Consumer Applications • Industrial Applications • Construction Applications • General Purpose
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.13	1.13	ISO 1183
Melt Mass-Flow Rate (MFR)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-2
Tensile Stress ² (Yield)	6530 psi	45.0 MPa	ISO 527
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 180
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

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	365 to 392 °F	185 to 200 °C
Middle Temperature	383 to 419 °F	195 to 215 °C
Front Temperature	383 to 428 °F	195 to 220 °C
Nozzle Temperature	392 to 419 °F	200 to 215 °C
Mold Temperature	104 °F	40.0 °C
Back Pressure	11600 psi	80.0 MPa

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)

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