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 • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Automotive Specifications	• CHRYSLER MS-DB-500 CPN 4518	• GM GMP.PP.060	
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.13	1.13	ISO 1183
Melt Mass-Flow Rate (MFR)	5.0 g/10 min	5.0 g/10 min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2] (Yield)	9430 psi	65.0 MPa	ISO 527
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2
Flexural Modulus	638000 psi	4400 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength (73°F (23°C))	3.0 ft·lb/in²	6.3 kJ/m²	ISO 180
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	275 °F	135 °C	

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 °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)