



# Maxxam™ PP5940 B131

## Polypropylene

### 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	• North America	
Filler / Reinforcement	• Glass/Mica, 40% Filler by Weight	
Automotive Specifications	• CHRYSLER MS-DB-500 CPN 3307	• GM GMW16606P-PP- GF25+M15
Appearance	• Black	
Processing Method	• Injection Molding	

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (73°F (23°C))	10000 psi	69.0 MPa	ISO 527
Tensile Elongation (Break, 73°F (23°C))	2.5 %	2.5 %	ISO 527
Flexural Modulus (73°F (23°C))	841000 psi	5800 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	3.1 ft-lb/in <sup>2</sup>	6.6 kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	315 °F	157 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	280 °F	138 °C	ISO 75-2/A

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

#### Injection Notes

Injection Pressure: MED-HIGH  
Hold Pressure: MED-HIGH  
Screw Speed: MODERATE  
Back Pressure: LOW

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## Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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