



# Maxxam™ PP5935 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/Mica		
Features	• General Purpose	• Homopolymer	
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Automotive Specifications	• GM GMW16606P-PP-GF20+M15		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.17	1.17	ISO 1183
Melt Mass-Flow Rate (MFR)	7.0 g/10 min	7.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress <sup>2</sup> (Yield)	8990 psi	62.0 MPa	ISO 527
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2
Flexural Modulus	725000 psi	5000 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	2.3 ft·lb/in <sup>2</sup>	4.8 kJ/m <sup>2</sup>	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	293 °F	145 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	275 °F	135 °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 °C
Back Pressure	11600 psi	80.0 MPa

**Notes**

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

<sup>2</sup> 2.0 in/min (50 mm/min)

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