



# Maxxam™ DP-9156-5-8000 F-1

## 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	• Glass Fiber, 10% Filler by Weight		
Features	• Chemically Coupled • Copolymer	• General Purpose • UV Stabilized	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
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	0.964	0.964	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg)	6.5 g/10 min	6.5 g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.1E-3 in/in	0.31 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>3</sup> (Yield)	5280 psi	36.4 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	11 %	11 %	ASTM D638
Flexural Modulus <sup>4</sup>	248000 psi	1710 MPa	ASTM D790
Flexural Strength <sup>4</sup>	7200 psi	49.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.9 ft·lb/in	150 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	289 °F	143 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	178 °F	81.0 °C	ASTM D648

#### Notes

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

<sup>2</sup> Procedure A

<sup>3</sup> Type I, 2.0 in/min (51 mm/min)

<sup>4</sup> 0.050 in/min (1.3 mm/min)