



Maxxam™ 8400-7001

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	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Calcium Carbonate	• Filler, 30% Filler by Weight	
Features	• Copolymer	• General Purpose	
Uses	• Construction Applications • Consumer Applications	• General Purpose • Industrial Applications	
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.14	1.14	ASTM D792
Specific Volume	24.3 in ³ /lb	0.878 cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010 to 0.018 in/in	1.0 to 1.8 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (Yield)	2600 psi	17.9 MPa	ASTM D638
Tensile Elongation ³ (Break)	100 %	100 %	ASTM D638
Flexural Modulus	220000 psi	1520 MPa	ASTM D790
Flexural Strength	4100 psi	28.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	180 °F	82.2 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	130 °F	54.4 °C	

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 2.0 in/min (51 mm/min)

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