



Maxxam™ XN-418.G001-1000

Polypropylene Copolymer

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	
Filler / Reinforcement	• Calcium Carbonate	• Filler, 40% Filler by Weight	
Features	• Copolymer	• Medium Flow	• Medium Impact Resistance
Uses	• Construction Applications • Consumer Applications	• General Purpose • Industrial Applications	
Appearance	• Natural Color		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.23	1.23	ASTM D792
Specific Volume	22.5 in ³ /lb	0.813 cm ³ /g	ASTM D792
Molding Shrinkage	0.80 to 1.2 %	0.80 to 1.2 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	2500 psi	17.2 MPa	ASTM D638
Tensile Elongation ² (Break)	470 %	470 %	ASTM D638
Flexural Modulus	260000 psi	1790 MPa	ASTM D790
Flexural Strength	3750 psi	25.9 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	1.4 ft-lb/in	75 J/m	
Gardner Impact			ASTM D3029
73°F (23°C), 0.125 in (3.18 mm)	156 in-lb	17.6 J	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	75	75	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	205 °F	96.1 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm), ALL)	HB	HB	UL 94

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)

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