

Maxxam™ 8400-7001

Polypropylene

PolyOne Corporation

Message:

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 Information			
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Specific Volume	0.878	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	17.9	MPa	ASTM D638
Tensile Elongation ³ (Break)	100	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Flexural Strength	28.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	110	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	82.2	°C	
1.8 MPa, Unannealed, 3.18 mm	54.4	°C	

NOTE	
1.	Procedure A
2.	Type I, 51 mm/min
3.	Type I, 51 mm/min

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