

Maxxam™ PPC-40C Nat

Polypropylene Copolymer

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			
UL YellowCard	E76261-101413554		
Filler / Reinforcement	Calcium Carbonate Filler,40% Filler by Weight		
Features	Copolymer General Purpose Medium Flow Medium Impact Resistance		
Uses	Automotive Applications Construction Applications Consumer Applications General Purpose Industrial Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Specific Volume	0.813	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	0.80 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	17.2	MPa	ASTM D638
Tensile Elongation ³ (Break)	200	%	ASTM D638
Flexural Modulus	1790	MPa	ASTM D790
Flexural Strength	25.9	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	75	J/m	ASTM D256A
Gardner Impact (23°C, 3.18 mm)	17.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	96.1	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ALL)	HB		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	16.0 to 50.0	°C	
NOTE			
1.	Procedure A		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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