

## PolyOne Maxxam™ PPC-40G Black Polypropylene Copolymer (PP Copolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Maxxam-PPC-40G-Black-Polypropylene-Copolymer-PP-Copolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Maxxam-PPC-40G-Black-Polypropylene-Copolymer-PP-Copolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.5 MPa	9500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	156 °C @Thickness 3.18 mm	313 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	16.0 - 50.0 °C	60.8 - 122 °F	

Descriptive Properties	Value	Comments
Additive	Impact Modifier	
Appearance	Black	
Features	Copolymer	

Descriptive Properties	General Purpose Value	Comments
	Impact Modified	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 40% Filler by Weight	
Forms	Pellets	
Generic Material	PP Copolymer	
Generic Name	Polypropylene Copolymer (PP Copolymer)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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