PolyOne Maxxam™ PD 40 TF Black PP Homopolymer with 40% Talc (Unverified Data**)

Categories: Polymer; Thermoplastic; Polypropylene (PP); Polypropylene with 40% Talc Filler

Material Notes: 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.

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Filler Content	40 %	40 %	Talc
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	55.8 MPa	8090 psi	ASTM D790
Flexural Modulus	3.72 GPa	540 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.500 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)	145 °C @Thickness 3.18 mm	293 °F @Thickness 0.125 in	Annealed; ASTM D648

Descriptive Properties	
Appearance	Black
Features	General Purpose Homopolymer Industrial Resin
Forms	Pellets
Generic Name	Polypropylene Homopolymer
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