

Maxxam™ PD 40 TF Black

Polypropylene Homopolymer

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	Talc,40% Filler by Weight		
Features	General Purpose		
	Homopolymer		
	Industrial Resin		
Uses	Automotive Applications		
	Construction Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	31.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	8.0	%	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Flexural Strength	55.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	27	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	145	°C	ASTM D648
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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