Maxxam™ PD 20 TF Black
Polypropylene

Key Characteristics

Product Description
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

Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Talc, 23% Filler by Weight
Features	• Medium Flow
Appearance	• Black
Forms	• Pellets

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.07	1.07	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (230°C/2.16 kg)	17 g/10 min	17 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.011 to 0.012 in/in	1.1 to 1.2 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3] (Yield)	4700 psi	32.4 MPa	ASTM D638
Tensile Elongation [3] (Break)	44 %	44 %	ASTM D638
Flexural Modulus	350000 psi	2410 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.50 ft·lb/in	27 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	252 °F	122 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	155 °F	68.5 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm), BK)	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	60.8 to 122 °F	16.0 to 50.0 °C