Maxxam™ PP6120 B16-2

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	• North America
Filler / Reinforcement	• Talc
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05	ASTM D792
Melt Mass-Flow Rate (MFR)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]	3480 psi	24.0 MPa	ASTM D638
Tensile Elongation [2] (Break)	95 %	95 %	ASTM D638
Flexural Modulus [3]	283000 psi	1950 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact	2.7 ft·lb/in	150 J/m	ASTM D256
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	230 °F	110 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	129 °F	54.0 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Injection Notes
Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

Notes

[1] Typical values are not to be construed as specifications.

[2] 2.0 in/min (50 mm/min)

[3] 0.051 in/min (1.3 mm/min)