Maxxam™ PP5140F A7

Polypropylene Homopolymer

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, 40% Filler by Weight		
Features	• Good Processability • Good Stiffness	• Good Strength • High Heat Resistance	• Medium Flow
Uses	• Appliance Components • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.23 g/cm³	1.23 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (Yield)	4060 psi	28.0 MPa	ISO 527-2
Tensile Strain (Break)	10 %	10 %	ISO 527-2
Flexural Modulus	551000 psi	3800 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength (73°F (23°C))	2.9 ft·lb/in²	6.0 kJ/m²	ISO 180
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	
Melting Temperature	320 to 329 °F	160 to 165 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	59 to 149 °F	15 to 65 °C

Notes

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