Maxxam™ MX5210-0040 RS Natural

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	• Filler, 40% Filler by Weight	• Glass Fiber	
Features	• Chemically Coupled • General Purpose	• Homopolymer • Low Flow	
Uses	• Consumer Applications • General Purpose	• Hospital Goods • Industrial Applications	• Medical Devices
Agency Ratings	• FDA Unspecified Rating [1]		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Specific Volume	22.7 in³/lb	0.820 cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) [3] (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [4] (Yield)	12900 psi	88.9 MPa	ASTM D638
Tensile Elongation [4] (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.03E+6 psi	7100 MPa	ASTM D790
Flexural Strength	20800 psi	143 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	2.2 ft·lb/in	120 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)	324 °F	162 °C	

Processing Information

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

Notes

[1] FDA rating based on application usage

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

[3] Procedure A

[4] Type I, 2.0 in/min (51 mm/min)

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