



Maxxam™ Maxxam PP H5 G30 grey VN8581CF UV

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	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• UV Stabilizer		
Features	• Filled	• General Purpose	• Homopolymer
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.13 g/cm ³	1.13 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 to 5.0 g/10 min	3.0 to 5.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	3.00 to 5.00 cm ³ /10min	3.00 to 5.00 cm ³ /10min	ISO 1133
Molding Shrinkage ³			ISO 294-4
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.60 to 1.2 %	0.60 to 1.2 %	
Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.20 to 0.60 %	0.20 to 0.60 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	856000 psi	5900 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	10900 psi	75.0 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
73°F (23°C), Injection Molded	5.2 ft·lb/in ²	11 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C), Injection Molded	23 ft·lb/in ²	48 kJ/m ²	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1380 °F	750 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.03 to 0.12 in (0.8 to 3.0 mm)	1430 °F	775 °C	

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

³ Bergmann Method



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