



Maxxam™ CL6 GF/30 H BLACK

Polypropylene Copolymer

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 • Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Heat Stabilized
Uses	• Automotive Applications • Consumer Applications • Construction Applications • General Purpose • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PP/E-GF30

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.12 g/cm ³	1.12 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	Internal Method
Molding Shrinkage - Across Flow	0.40 to 0.70 %	0.40 to 0.70 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	769000 psi	5300 MPa	ISO 527-2/1
Tensile Stress	10200 psi	70.0 MPa	ISO 527-2/5
Tensile Strain ² (Break)	4.0 %	4.0 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	6.7 ft-lb/in ²	14 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	284 °F	140 °C	ISO 75-2/A
Vicat Softening Temperature	320 °F	160 °C	ISO 306 ³
Melting Temperature (DSC)	320 to 329 °F	160 to 165 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1200 °F	650 °C	IEC 60695-2-12

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 hr	1.0 hr
Processing (Melt) Temp	365 to 428 °F	185 to 220 °C
Mold Temperature	77 to 131 °F	25 to 55 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5 mm/min)

³ 120°C/h, A (10N)



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