

## PolyOne Edgetek® GF 5209 10 FPS 15 BLACK 30 A 1 Acetal-Copolymer, Glass Filled (discontinued \*\*)

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

PRELIMINARY DATA SHEET Description/Features: Glass Fiber Reinforced Black Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-GF-5209-10-FPS-15-BLACK-30-A-1-Acetal-Copolymer-Glass-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-GF-5209-10-FPS-15-BLACK-30-A-1-Acetal-Copolymer-Glass-Filled-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Water Absorption	0.20 % @Thickness 3.17 mm	0.20 % @Thickness 0.125 in	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D955
Ash	13 %	13 %	ASTM D2584

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.9 MPa	10000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	0.700 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	Unannealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	Unannealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	165 °C	329 °F	Molding

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