

**PolyOne Nymax™ GF1800-40 HS Black 13 Nylon 6/12, Glass Filled
(discontinued **)**

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Description/Features:Glass Fiber ReinforcedHeat StabilizedNylon 6/12 CompoundBlackDry as molded:PolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF1800-40-HS-Black-13-Nylon-612-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 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	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	162 MPa	23500 psi	Type 1 - Rigids, Break, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Modulus	9.51 GPa	1380 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	2.40 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	Unannealed; ASTM D648

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