

Adell BR-18 Nylon 6, 40% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-BR-18-Nylon-6-40-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	179 MPa	26000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	228 MPa	33100 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Compressive Yield Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ASTM D648
Flammability, UL94	HB	HB	

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