

Adell BR-37 Nylon 6, 35% 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-37-Nylon-6-35-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	159 MPa	23100 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
Compressive Yield Strength	172 MPa	24900 psi	ASTM D695
Izod Impact, Notched	1.10 J/cm	2.06 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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