

Adell AR-18 Nylon 66, 40% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 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-AR-18-Nylon-66-40-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in³	ASTM D792
Water Absorption	0.60 %	0.60 %	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	101	101	ASTM D785
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Ultimate	221 MPa	32100 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	290 MPa	42100 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Yield Strength	276 MPa	40000 psi	ASTM D695
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	>= 249 °C	>= 480 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	>= 249 °C	>= 480 °F	ASTM D648
Flammability, UL94	HB	HB	

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