

Adell ER-18 Homopolymer Polypropylene, 40% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-ER-18-Homopolymer-Polypropylene-40-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	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	60	60	ASTM D785
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Ultimate	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	148 MPa	21500 psi	ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D256
Gardner Impact	0.300 J	0.221 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Melting Point	182 °C	360 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	331 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	157 °C	315 °F	ASTM D648
Flammability, UL94	HB	HB	

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