

Adell ER-14 Homopolymer Polypropylene, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-14-Homopolymer-Polypropylene-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.035 g/cc	0.03739 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	58	58	ASTM D785
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	86.02 MPa	12480 psi	ASTM D790
Flexural Modulus	4.30 GPa	624 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D256
Gardner Impact	0.500 J	0.369 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)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ASTM D648
Flammability, UL94	HB	HB	

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