

Adell ER-17 Homopolymer Polypropylene, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-17-Homopolymer-Polypropylene-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.11 - 1.13 g/cc	0.0401 - 0.0408 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 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	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	1/8 inch; ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	1/8 inch; ASTM D256
Gardner Impact	0.300 J	0.221 ft-lb	ASTM D695

Thermal Properties	Metric	English	Comments
Melting Point	171 - 193 °C	340 - 380 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	154 °C	310 °F	ASTM D648
Flammability, UL94	HB	HB	

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