

Adell ER-39 Polypropylene Homopolymer; 43% Glass Reinforced, High Stiffness

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-39-Polypropylene-Homopolymer-43-Glass-Reinforced-High-Stiffness.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	100 MPa	14500 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Flexural Strength	150 MPa	21800 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	0.640 J/cm @Temperature -40.0 °C	1.20 ft-lb/in @Temperature -40.0 °F	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D256
	3.70 J/cm @Temperature -40.0 °C	6.93 ft-lb/in @Temperature -40.0 °F	ASTM D256
Gardner Impact	0.800 J	0.590 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	ASTM D648

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