

Adell AI-30 Nylon 66, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-AI-30-Nylon-66-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0125 cm/cm	0.0125 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Ultimate	60.7 MPa	8800 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Compressive Yield Strength	76.0 MPa	11000 psi	ASTM D695
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	177 °C	351 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D648
Flammability, UL94	HB	HB	

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