

Adell BD-10 Nylon 6, Ultra High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-BD-10-Nylon-6-Ultra-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	1.5 %	1.5 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	48.3 MPa	7010 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	1.60 GPa	232 ksi	ASTM D790
Compressive Yield Strength	45.0 MPa	6530 psi	ASTM D695
Izod Impact, Notched	9.60 J/cm	18.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 °C	410 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	171 °C	340 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °F	ASTM D648
Flammability, UL94	HB	HB	

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