

Adell BS-30 Nylon 6, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-BS-30-Nylon-6-General-Purpose.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	1.8 %	1.8 %	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	78	78	ASTM D785
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Compressive Yield Strength	62.0 MPa	8990 psi	ASTM D695
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	182 °C	360 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	ASTM D648
Flammability, UL94	V-2	V-2	

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