

Adell AS-10 Nylon 66, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-AS-10-Nylon-66-General-Purpose.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.5 %	1.5 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0175 cm/cm	0.0175 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	79	79	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	81.4 MPa	11800 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Compressive Yield Strength	97.0 MPa	14100 psi	ASTM D695
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	193 °C	379 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	ASTM D648
Flammability, UL94	V-2	V-2	

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