

Ascend Performance Materials Vydyne® 50BW Nylon 66, Conditioned (2.5% Moisture)

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

Material Notes:

Vydyne® 50BW is a general purpose Nylon 66 resin. Available in natural. Designed for extrusion applications that do not require use of a high-viscosity resin. This resin offers a well-balanced combination of engineering properties characterized by high strength, rigidity, good toughness, high melt point, good surface lubricity, and abrasion resistance. Vydyne 50BW maintains the chemical resistance typical of nylon to many chemicals, solvents, gasoline, and machine and motor oils. Vydyne 50BW permits the manufacture of parts with good initial color plus good property and color retention when using regrind. This resin is recognized by Underwriters Laboratories and conforms to the requirements of many industrial, federal, and military specifications for premium-quality general-purpose Nylon 66 resins. Typical Applications/End Uses. Vydyne 50BW has been successfully extruded in applications that do not require high melt strength, such as monofilament and bristle products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-50BW-Nylon-66-Conditioned-25-Moisture.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50% RH; ISO 62
Linear Mold Shrinkage	0.012 cm/cm @Thickness 2.00 mm	0.012 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	ISO 527
Elongation at Break	>= 100 %	>= 100 %	ISO 527
Elongation at Yield	20 %	20 %	ISO 527
Tensile Modulus	1.40 GPa	203 ksi	ISO 527
Flexural Strength	20.0 MPa	2900 psi	ISO 178
Flexural Modulus	1.36 GPa	197 ksi	ISO 178

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