

Ascend Performance Materials Vydyn® 47H BK0644 Nylon 66, Impact Modified, Conditioned

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

Material Notes:

Vydyn® 47H BK0644 is a high-performance, medium-impact-modified, heat-stabilized PA66 resin with excellent UV stability and outstanding processing characteristics. This product has an UL746C f1 rating, making it suitable for a variety of outdoor applications.

Availability:Asia PacificEuropeNorth AmericaAdditive:Impact Modifier Features:Gasoline ResistanceGeneral Purpose Good Abrasion ResistanceGood Chemical Resistance Good ProcessabilityGood ToughnessHigh Impact ResistanceImpact ModifiedLow Temperature Impact Resistance Low Temperature ToughnessOil ResistantSolvent ResistantUses: Automotive ApplicationsConnectorsConsumer ApplicationsElectrical/Electronic ApplicationsFastenersGearsIndustrial Applications Appearance: BlackForms: PelletsProcessing Method: Injection MoldingInformation provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-47H-BK0644-Nylon-66-Impact-Modified-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	1.2 % @Time 86400 sec	1.2 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm @Diameter 2.00 mm	0.018 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Diameter 2.00 mm	0.016 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527-2
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-2
Elongation at Break	>= 60 %	>= 60 %	ISO 527-2
Tensile Modulus	1.74 GPa	252 ksi	ISO 527-2
Flexural Strength	24.0 MPa	3480 psi	ISO 178
Flexural Modulus	0.780 GPa	113 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ² @Temperature -40.0 °C	8.57 ft-lb/in ² @Temperature -40.0 °F	ISO 180

Mechanical Properties	24.0 kJ/m ² Metric	11.4 ft-lb/in ² English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	44.0 kJ/m ²	20.9 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.40 J/cm ²	11.4 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.20 J/cm ²	29.5 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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