

BASF Ultramid® B29 HM 01 PA6 (Dry)

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

Material Notes:

Ultramid B29 HM 01 is a medium viscosity , heat stabilized, PA6 universal wire jacketing resin offering excellent performance through the range of THHN, THWN, and TFFN constructions. It possesses a balance of performance properties including flexibility, toughness and abrasion resistance combined with excellent chemical resistance to gasoline, oil and other hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B29-HM-01-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	23°C/50% R.H.; ISO 62
Relative Viscosity	2.81 - 3.0 cP	2.81 - 3.0 cP	ISO Test; 96 % SAV
Viscosity Test	165 cm ³ /g	165 cm ³ /g	Viscosity number

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM Test
Tensile Strength, Yield	73.0 MPa	10600 psi	50mm/min; ISO 527
Elongation at Yield	4.25 %	4.25 %	50mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1mm/min; ISO 527
Flexural Modulus	2.23 GPa	323 ksi	ISO Data
Izod Impact, Notched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO Test
	26.0 kJ/m ² @Temperature -40.0 °C	12.4 ft-lb/in ² @Temperature -40.0 °F	ISO Test

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Descriptive Properties	Value	Comments
Color	Natural	

Commercial Status Descriptive Properties	North America and Europe Value	Comments
Impact Modified	No	
Primary Processing Technique	Wire and Cable	

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