

Ultramid® B29 HM 01

Polyamide 6

BASF Corporation

Message:

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.

Applications

It is a preferred resin for wire conductor jacketing, including shipboard cable, and non-metallic-sheathed cable primary jacketing.

General Information			
Additive	Heat Stabilizer		
Features	Gasoline Resistance		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Flexibility		
	Good Toughness		
	Heat Stabilized		
	Hydrocarbon Resistant		
	Medium Viscosity		
	Oil Resistant		
Uses	Cable Jacketing		
	Shipboard Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Wire Types	TFFN		
	THHN		
	THWN		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	9.5	%	
Equilibrium, 23°C, 50% RH	2.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2

Tensile Stress (Yield, 23°C)	73.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.3	%	ISO 527-2
Flexural Modulus (23°C)	2230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	26	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146

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