

Ultramid® B 29 HM 01

Polyamide 6

BASF Corporation

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer		
Features	• Gasoline Resistance • Good Abrasion Resistance • Good Chemical Resistance • Good Flexibility	• Good Toughness • Heat Stabilized • Hydrocarbon Resistant • Low Viscosity	• Medium Viscosity • Oil Resistant
Uses	• Cable Jacketing • Shipboard Cable Jacketing	• Wire & Cable Applications • Wire Jacketing	
Wire Types	• TFFN	• THHN	• THWN
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		

Physical	Nominal Value	Unit	Test Method
Density	1130	kg/m ³	ISO 1183 ²
Water Absorption			ISO 62 ²
Saturation	9.5	%	
Equilibrium	2.7	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2500	MPa	ISO 527-2 ²
Tensile Stress (Yield)	73.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	4.3	%	ISO 527-2 ²
Flexural Modulus (23°C)	2230	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	26.0	kJ/m ²	
23°C	40.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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