Ultramid® B27 HM 01

Polyamide 6

BASF Corporation

Message:

Ultramid B27 HM 01 is a low viscosity, heat stabilized, nylon 6 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. 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	Low viscosity Good flexibility Good wear resistance Good chemical resistance Gasoline resistance Hydrocarbon resistance Oil resistance Thermal Stability Good toughness		
Uses	Cable sheath Wire sheath		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.13	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	9.5	%	ISO 62
Equilibrium, 23°C, 50% RH	2.7	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	80.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.3	%	ISO 527-2
Flexural Modulus (23°C)	2600	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ISO 180
-40°C	2.1	kJ/m²	ISO 180
23°C	3.6	kJ/m²	ISO 180

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

Recommended distributors for this material

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