

BASF Ultramid® A27 E 01 PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Ultramid A27 E 01 is a low-viscosity, general-purpose PA66 grade for compounding. It conforms to FDA requirements including, 21 CFR 177.1500, EU Directive 2002/72/EC, the German BfR recommendation "X Polyamide", 1.6.1998 or legislations for other countries will be provided on request.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A27-E-01-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	8.5 %	8.5 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	beginning dry (23°C/50% R.H.); ISO 62
Viscosity Test	150 cm ³ /g	150 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM Data; MD
Melt Flow	80 g/10 min @Load 5.00 kg, Temperature 275 °C	80 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	20 %	20 %	50mm/min; ISO 527
Tensile Modulus	1.60 GPa	232 ksi	1mm/min; ISO 527
Flexural Modulus	7.60 GPa	1100 ksi	ISO Data
Izod Impact, Notched (ISO)	9.50 kJ/m ²	4.52 ft-lb/in ²	ISO Test
Tensile Creep Modulus, 1 hour	1100 MPa	160000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	680 MPa	98600 psi	ISO 899

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10 K/min
	260 °C	500 °F	ASTM Test

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	5.0	5.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.20	0.20	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
FDA	21 CFR 177.1500	
Impact Modified	No	
Primary Processing Technique	Film Extrusion	

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