BASF Ultramid® A27 E 01 PA66 (Dry)

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO 1183
Water Absorption	8.5 %	8.5 %	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	23°C/50% R.H.; ISO 62
Viscosity Test	150 cm³/g	150 cm³/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	80.0 MPa	11600 psi	50mm/min; ISO 527
	80.0 MPa	11600 psi	2 in/min; ASTM Test
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527
	3.20 GPa	464 ksi	ASTM Test
Izod Impact, Notched	0.430 J/cm @Temperature -40.0 °C	0.806 ft-lb/in @Temperature -40.0 °F	ASTM Test
	0.530 J/cm @Thickness 3.17 mm	0.993 ft-lb/in @Thickness 0.125 in	ASTM Test

Thermal Properties	Metric	English	Comments
	45.0 µm/m-°C	25.0 µin/in-°F	

Thermal Properties	Metric	English	Comments
CTE, linear	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	ASTM Test
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359
Melting Point	260 °C	500 °F	10 K/min
	260 °C	500 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	199 °C	390 °F	ASTM Test
	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75
	100 °C	212 °F	ASTM Test
Vicat Softening Point	250 °C	482 °F	(50 °C/h / 50N) - B/50; ISO 306
Glass Transition Temp, Tg	72.0 °C	162 °F	10 K/min; ISO 11357-1/-3
Oxygen Index	28 %	28 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.026 @Frequency 1.00e+6 Hz	0.026 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	

Descriptive Properties	Value	Comments
Impact Modified	No	
Primary Processing Technique	Film Extrusion	

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