

BASF Ultramid® B27 E 01 PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Ultramid B27 E 01 is a low viscosity general-purpose, extrusion PA6 grade well suited 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-B27-E-01-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23°C/50% R.H.; ISO 62
Relative Viscosity	2.7 cP	2.7 cP	ISO Test; 96 % SAV
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	130 g/10 min @Load 5.00 kg, Temperature 275 °C	130 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	2 in/min; ASTM Test
	90.0 MPa	13100 psi	50mm/min; ISO 527
Elongation at Break	15 %	15 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	4.5 %	4.5 %	50mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1mm/min; ISO 527
	3.00 GPa	435 ksi	ASTM Test
Izod Impact, Notched	0.480 J/cm @Temperature -40.0 °C	0.899 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
Charpy Impact Unnotched	NB	NB	ISO 179

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	85.0 µm/m-°C	47.2 µin/in-°F	ISO 11359
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM Test
	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ASTM Test
	65.0 °C	149 °F	ISO 75
Vicat Softening Point	204 °C	399 °F	(50 °C/h / 50N) - B/50; ISO 306
Glass Transition Temp, Tg	60.0 °C	140 °F	10 K/min; ISO 11357-1/-3
Oxygen Index	26 %	26 %	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	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@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	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Other Extrusion	

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