

Ultramid® B27 E 01

Polyamide 6

BASF Corporation

Message:

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.

Applications

Typical applications include monofilaments.

General Information				
Features		Food Contact Acceptable		
		General Purpose		
		Low Viscosity		
		Oil Resistant		
Uses		Compounding		
		General Purpose		
		Monofilaments		
Agency Ratings		BfR Food Contact, Unspecified Rating		
		EC 1907/2006 (REACH)		
		EU 2002/72/EC		
		FDA 21 CFR 177.1500		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Extrusion		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	130	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	

Equilibrium, 23°C, 50% RH	2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.5	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	15	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	60	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
CLTE - Flow	8.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Dielectric Constant				IEC 60250
100 Hz	4.00	--		
1 MHz	3.50	7.00		
Dissipation Factor				IEC 60250
100 Hz	0.010	--		
1 MHz	0.023	0.30		
Comparative Tracking Index	600	600	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	240 to 285		°C	
Mold Temperature	65.0 to 80.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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