

Ultramid® B3L BK00464

Polyamide 6

BASF Corporation

Message:

Ultramid B3L BK00464 is an impact-modified, pigmented black, easy flowing injection molding PA6 grade for fast processing.

Applications

Typical applications include impact-resistant articles such as housings, fittings, small parts and anchors.

General Information				
UL YellowCard		E36632-531652	E41871-233694	
Additive		Impact Modifier		
Features		Fast Molding Cycle		
		Good Flow		
		Good Impact Resistance		
		Impact Modified		
		Oil Resistant		
Uses		Fittings		
		Housings		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2750	--	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	63.0	--	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	--	%	ISO 527-2
Flexural Modulus (23°C)	2240	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.8	--	kJ/m²	ISO 179
Notched Izod Impact Strength				ISO 180
-40°C	4.6	--	kJ/m²	

23°C	6.2	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
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	6.40		
Dissipation Factor				IEC 60250
100 Hz	0.010	--		
1 MHz	0.024	0.24		
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	0.20		%	
Processing (Melt) Temp	240 to 270		°C	
Mold Temperature	60.0 to 85.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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