

Ultramid[®] B3L BK00464 Polyamide 6

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.

PHYSICAL	ISO Test Method	Property Value		
Density, g/cm ³	1183	1.1		
Moisture, %	62			
(50% RH)		2.5		
(Saturation)		9		
MECHANICAL	ISO Test Method	Dry	Conditioned	
Tensile Modulus, MPa	527			
23°C		2,750	-	
Tensile stress at yield, MPa	527			
23°C		63	-	
Tensile strain at yield, %	527			
23°C		4	-	
Flexural Modulus, MPa	178			
23°C		2,240	-	
IMPACT	ISO Test Method	Dry	Conditioned	
Izod Notched Impact, kJ/m ²	180			
-40°C		4.6	-	
23°C		6.2	-	

23°C		6.8	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, °C	3146	220	_

75

55

179

HDT B, ° C	75	134	-

ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	600
Volume Resistivity (Ohm-m)	IEC 60093	1E13	1E10
Dielectric Constant (100 Hz)	IEC 60250	4	-
Dielectric Constant (1 MHz)	IEC 60250	3.5	6.4
Dissipation Factor (100 Hz), E-4	IEC 60250	100	-
Dissipation Factor (1 MHz), E-4	IEC 60250	240	2,400

Processing Guidelines

Material Handling

Max. Water content: 0.15%

Charpy Notched, kJ/m²

HDT A, ° C

Material is supplied in sealed containers and drying prior to molding in a dehumidifying or desiccant dryer is recommended. Drying parameters are dependent upon the actual percentage of moisture in the pellets and typical pre-drying conditions are 2-4 hours at 180F (83C). Further information concerning safe handling procedures can be obtained from the Safety Data Sheet (MSDS), or by contacting your BASF representative.

Typical Profile

Melt Temperature 240-270°C (464-518°F) Mold Temperature 60-85°C (140-185°F) Injection and Packing Pressure 35-125 bar (500-1500 psi)

Mold Temperatures

A mold temperature of 60-85°C (140-185°F) is recommended, however temperatures of as low as 10°C (50°F) can be used where applicable.

Pressures

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing.

Note

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