

Ultramid® B 3S BK00464

Polyamide 6
BASF Corporation

Product Description

Ultramid B3S BK00464 is an easy flowing, pigmented black, finely crystalline injection molding PA6 grade. It conforms to FDA requirements of 21 CFR 177.1500.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer	• Nucleating Agent	
Features	• Fast Molding Cycle • Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flow	• Good Processability • Good Stiffness • Good Thermal Aging Resistance • Heat Stabilized • Low Viscosity	• Nucleated • Oil Resistant • Semi Crystalline
Uses	• Automotive Interior Parts • Fasteners • Fuel Lines	• Handles • Household Goods • Housings	• Thin-walled Parts • Toys
Agency Ratings	• FDA 21 CFR 177.1500		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
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 11403-2) • Specific Volume vs. Temperature (ISO 11403-2)	• Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1130	kg/m ³	ISO 1183 ²
Water Absorption			
24 hr, 23°C	3.0	%	ISO 62
Saturation	9.5	%	ISO 62 ²
Equilibrium	3.0	%	ISO 62 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3250	MPa	ISO 527-2 ²
Tensile Stress (Yield)	88.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	3.8	%	ISO 527-2 ²
Flexural Modulus (23°C)	3000	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	3.00	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	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	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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