

Ultramid® B3S BK00464

Polyamide 6

BASF Corporation

Message:

Ultramid® B3S BK00464 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America. Typical application: Automotive.
Characteristics include:
REACH Compliant
RoHS Compliant
Chemical Resistant

General Information		
UL YellowCard	E36632-531654	E41871-233696
Features	Oil Resistant	
Agency Ratings	EC 1907/2006 (REACH)	
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 11403-1)	
	Specific Volume vs Temperature (ISO 11403-2)	
	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)	175	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3400	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	88.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.8	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	10	> 50	%	ISO 527-2
Flexural Modulus (23°C)	2900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179
-30°C	3.0	--	kJ/m ²	
23°C	4.0	50	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	200	--	kJ/m ²	
23°C	250 kJ/m ²	No Break		
Notched Izod Impact Strength (23°C)	3.0	--	kJ/m ²	ISO 180
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
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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