

Ultramid® A3W BK00464

Polyamide 66

BASF Corporation

Message:

Ultramid A3W BK00464 is an easy flowing, pigmented black, heat aging resistant injection molding PA66 grade for fast processing.

Applications

Typical applications include highly stressed parts such as bearings, bearing cages, gear-wheels, coil formers and cable connectors.

General Information			
UL YellowCard	E36632-531628		
Features	Fast Molding Cycle		
	Good Flow		
	Good Heat Aging Resistance		
	Oil Resistant		
Uses	Bearings		
	Connectors		
	Gears		
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)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792, ISO 1183
Water Absorption			
Saturation	8.5	%	ASTM D570
Saturation, 23°C	8.5	%	ISO 62
Equilibrium, 50% RH	2.8	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3300	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	85.0	MPa	ASTM D638

Yield, 23°C	88.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	4.5	%	ASTM D638
Yield, 23°C	4.7	%	ISO 527-2
Flexural Modulus (23°C)	3100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m ²	
23°C	4.6	kJ/m ²	
Notched Izod Impact			
-40°C	48	J/m	ASTM D256
23°C	53	J/m	ASTM D256
-40°C	4.0	kJ/m ²	ISO 180
23°C	4.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Peak Melting Temperature	260	°C	ASTM D3418, ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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