

Ultramid® A3WG8 BK20560

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG8 BK20560 is a 40% glass fiber reinforced, pigmented black PA66. This grade offers excellent heat resistance and high strength. It is designed for industrial applications requiring excellent strength and stiffness.

Applications

Typical applications include gear wheels, solenoid valve housings, cable attachments, automotive fuel distributors, pedals and components for automotive gear shifts.

General Information			
Filler / Reinforcement	Glass Fabric,40% Filler by Weight		
Features	High Heat Resistance		
	High Stiffness		
	High Strength		
	Oil Resistant		
Uses	Automotive Applications		
	Fuel Lines		
	Gears		
	Housings		
	Industrial Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	13200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	220	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	12000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m²	
23°C	13	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179

-30°C	83	kJ/m ²	
23°C	95	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-40°C	12	kJ/m ²	
23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°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	280 to 305	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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