

Ultramid® A3W2G10 BK20560

Polyamide 66

BASF Corporation

Message:

Ultramid A3W2G10 BK20560 is a 50% glass fiber reinforced injection molding PA66 grade.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Oil Resistant		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	15200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	236	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.9	%	ISO 527-2
Flexural Modulus (23°C)	14500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	13	kJ/m ²	
23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	256	°C	ISO 75-2/B
1.8 MPa, Unannealed	247	°C	ISO 75-2/A
Melting Temperature	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

