

Ultramid® A3WG10 CR BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG10 CR BK00564 is a 50% glass fiber reinforced crash resistance and heat aging resistance injection molding PA66 grade.

Applications

Typical applications include industrial articles having very high rigidity.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	Rigidity, high		
	Good heat aging resistance		
	Oil resistance		
Uses	Industrial application		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	4.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	17100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	234	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	14900	MPa	ISO 178
Flexural Stress (23°C)	362	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	88	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	257	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	

Suggested Max Moisture	0.15	%
Processing (Melt) Temp	280 - 305	°C
Mold Temperature	80 - 90	°C
Injection Pressure	3.50 - 12.5	MPa
Injection Rate	Fast	

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