

Ultramid® A3WG3 BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG3 BK00564 is a 15% glass fiber reinforced, pigmented black and heat aging resistance injection molding PA66 grade.

Applications

Typical applications include machine components and housings of medium stiffness. A3EG3 and A3HG3 are the preferred grades for producing electrically insulating parts.

General Information			
UL YellowCard	E36632-531630	E41871-233743	E41871-101468832
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Good Heat Aging Resistance		
	Good Stiffness		
	Oil Resistant		
Uses	Housings		
	Machine/Mechanical Parts		
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	1.23	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	7.0	%	
Equilibrium, 23°C, 50% RH	2.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	5500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	°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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