

Ultramid® A3WG5 BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG5 BK00564 is a 25% glass fiber reinforced, pigmented black and heat resistance injection molding PA66 grade.

Applications

Typical applications include machinery components and housings of high stiffness and dimensional stability such as coil formers and bearing cages.

A3EG5 and A3HG5 are the preferred grades for producing electrically insulating parts.

General Information			
UL YellowCard	E36632-531631	E41871-233744	E41871-101468833
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Good Dimensional Stability		
	High Stiffness		
	Medium Heat Resistance		
	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	1.32	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	6.0	%	
Equilibrium, 23°C, 50% RH	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	150	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	%	ISO 527-2
Flexural Modulus (23°C)	7480	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.7	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (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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