

Ultramid® A3WG6 BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG6 BK00564 is a 30% glass fiber reinforced, pigmented black and heat resistance injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability. A3EG6 is the preferred grade for producing electrically insulating parts.

Applications

Typical applications include lamp socket housings, cooling fans, insulating profiles for aluminum window frames, water containers for automotive cooling systems.

General Information			
UL YellowCard	E36632-531632	E41871-233745	E41871-101468834
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	High Stiffness		
	Medium Heat Resistance		
	Oil Resistant		
Uses	Automotive Applications		
	Containers		
	Housings		
	Machine/Mechanical Parts		
	Profiles		
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	1.36	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.5	%	
Equilibrium, 23°C, 50% RH	1.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	179	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.6	%	ISO 527-2
Flexural Modulus (23°C)	8730	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	8.5	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
RTI Elec			UL 746
0.710 mm	125	°C	
1.50 mm	125	°C	
3.00 mm	125	°C	
RTI Imp			UL 746
1.50 mm	115	°C	
3.00 mm	120	°C	
RTI Str			UL 746
1.50 mm	115	°C	
3.00 mm	130	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.710 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
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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