

Ultramid® A3WG6 BK00564

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

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	
Material Status	Commercial: Active
Availability	North America
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight
Features	 Good Heat Resistance High Dimensional Stability Oil Resistant
Uses	 Automotive Applications Containers Housings Machine/Mechanical Parts Profiles
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Automotive Specifications	 FORD WSK-M4D642-A FORD WSK-M4D642-A2 GM GMW15702-001321 PA66-GF30 GM GMW3038P-PA66-GF30H GM QK 003013 H IMDS ID 111794 Color: 00564 Black PSA Peugeot-Citroën SPA X62 4116 Color: 00564 Black
Appearance	Black
Forms	• Pellets
Processing Method	Injection Molding

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.36	g/cm³	ISO 1183	
Water Absorption (Saturation, 73°F)	5.5	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Stress (Break, 73°F)	26000	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	2.6	%	ISO 527-2	
Flexural Modulus (73°F)	1.27E+6	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact Strength (73°F)	4.0	ft·lb/in²	ISO 180	

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	482	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146
RTI Elec			UL 746
0.028 in	257	°F	
0.06 in	257	°F	
0.12 in	257	°F	
RTI Imp			UL 746
0.06 in	239	°F	
0.12 in	248	°F	
RTI Str			UL 746
0.06 in	239	°F	
0.12 in	266	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.028 in	HB		
0.06 in	НВ		
0.12 in	НВ		
Process	sing Information		
Injection	Nominal Value	Unit	
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	536 to 581	°F	
Mold Temperature	176 to 194	°F	

Notes

Injection Pressure

Injection Rate



508 to 1810 psi

Fast

¹ Typical properties: these are not to be construed as specifications.