

Ultramid® A 3WG6 BK00564

Polyamide 66

BASF Corporation

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.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Heat Stabilized • Oil Resistant • Good Flow • High Rigidity • Good Thermal Aging Resistance • Low Viscosity
Uses	• Automotive Applications • Housings
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	1.36 g/cm ³	ASTM D792
--	--	1360 kg/m ³	ISO 1183 ²
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption			
24 hr	1.7	%	ASTM D570
24 hr, 23°C	1.7	%	ISO 62
Saturation	5.5	%	ASTM D570 ISO 62 ²
Equilibrium, 50% RH	1.7	%	ASTM D570
Equilibrium	1.7	%	ISO 62 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	179	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.6	%	ISO 527-2 ²
Flexural Modulus (23°C)	8730	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	8.50	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	250	°C	ISO 75-2 ²
Melting Temperature	260	°C	ASTM D3418 ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	115	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Elec (1.50 mm)	125	°C	UL 746
Injection	Nominal Value	Unit	Test Method
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.12	%	
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		

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Monday, December 21, 2009

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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