

Ultramid® A3HG5 BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3HG5 BK00564 is a 25% glass fiber reinforced, pigmented black, injection molding PA66 grade.

Applications

Typical applications include machinery components and housings of high stiffness and dimensional stability.

General Information			
UL YellowCard	E36632-531624		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Good Dimensional Stability		
	High 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	1.32	g/cm³	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)	8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	165	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	6.0	kJ/m²	
23°C	7.1	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B

1.8 MPa, Unannealed	246	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

