

Ultramid® A3EG3 BK00564

Polyamide 66

BASF Corporation

Message:

Ultramid A3EG3 BK00564 is a 15% glass fiber reinforced, pigmented black, injection molding PA66 grade.

Applications

Typical applications include medium stiffness machinery components and housings, as well as electrically insulating parts.

General Information			
UL YellowCard	E36632-531618		
Filler / Reinforcement	Glass Fabric,15% Filler by Weight		
Features	Good Stiffness		
	Oil Resistant		
Uses	Electronic Insulation		
	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	1.24	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	7.0	%	
Equilibrium, 23°C, 50% RH	2.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	122	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m²	ISO 179
Notched Izod Impact Strength (23°C)	5.5	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	246	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
CLTE			
Flow	3.3E-5	cm/cm/°C	

Transverse	7.5E-5	cm/cm/°C
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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