

Ultramid® A 3EG7 BK00564

Polyamide 66

BASF Corporation

Product Description

Ultramid A3EG7 BK00564 is a 35% glass fiber reinforced, pigmented black, injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 35% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Dimensional Stability • Good Flow • Good Thermal Aging Resistance	• Good Weather Resistance • Heat Stabilized • High Rigidity	• Low Viscosity • Oil Resistant
Uses	• Automotive Applications	• Electronic Insulation	• Housings
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1410	kg/m ³	ISO 1183 ²
Water Absorption			
24 hr, 23°C	1.6	%	ISO 62
Saturation	5.0	%	ISO 62 ²
Equilibrium	1.6	%	ISO 62 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	190	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.8	%	ISO 527-2 ²
Flexural Modulus (23°C)	10000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	9.50	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 (DSC)	260	°C	ISO 3146
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		

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.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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