

Ultramid® B3GM35 BK60564

Polyamide 6

BASF Corporation

Message:

Ultramid B3GM35 BK60564 is a 40% combined glass-fiber and mineral reinforced, pigmented black injection molding PA6 grade.

Applications

Typical applications include industrial articles requiring medium rigidity and high dimensional stability.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Medium Rigidity		
	Oil Resistant		
Uses	Industrial Applications		
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	1.48	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.7	%	
Equilibrium, 23°C, 50% RH	1.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	128	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	3.9	kJ/m ²	
23°C	5.4	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	83.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	270 to 295	°C	

Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

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