Ultramid® B 3GM35 BK60564

Polyamide 6

BASF Corporation

Product Description
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			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight	• Mineral Filler, 25% Filler by Weight	
Features	• Good Dimensional Stability	• Medium Rigidity	• Oil Resistant
Uses	• Automotive Applications	• Handles	• Industrial Applications
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	6.6	%	
Equilibrium, 23°C, 50% RH	2.0	%	
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	3.90	kJ/m²	
23°C	5.40	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
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	

Notes

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