

Ultramid® B3M6 BK60564

Polyamide 6

BASF Corporation

Message:

Ultramid B3M6 BK60564 is a 30% mineral reinforced, pigmented black injection molding PA6 grade for industrial items requiring high impact strength and very high dimensional stability, excellent laser markability.

Applications

Typical applications include industrial items.

General Information				
UL YellowCard		E41871-100761800		
Filler / Reinforcement		Mineral,30% Filler by Weight		
Features		Good Dimensional Stability		
		High Impact Resistance		
		Laser Markable		
		Oil Resistant		
Uses		Industrial Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.90	--	%	
Water Absorption				
Saturation	6.2	--	%	ASTM D570
Saturation, 23°C	6.2	--	%	ISO 62
Equilibrium, 50% RH	2.4	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3700	--	MPa	ISO 527-2
Tensile Strength (Break, 23°C)	85.0	--	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	4.9	--	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	3270	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.6	--	kJ/m ²	ISO 179

Notched Izod Impact				
-40°C	45	--	J/m	ASTM D256
23°C	64	150	J/m	ASTM D256
-40°C	4.0	--	kJ/m ²	ISO 180
23°C	5.5	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	195	--	°C	ASTM D648
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	120	--	°C	ASTM D648
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418, ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity				
1.50 mm	> 1.0E+15	--	ohms·cm	ASTM D257
--	> 1.0E+15	--	ohms·cm	IEC 60093

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