



Ultramid® B3M6 BK60564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Mineral, 30% Filler by Weight
Features	• High Dimensional Stability • Laser Markable • High Impact Resistance • Oil Resistant
Uses	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WSK-M4D849-A
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.36	--		ASTM D792
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow (0.125 in)	9.0E-3	--	in/in	
Water Absorption (Saturation)	6.2	--	%	ASTM D570
Water Absorption				ISO 62
Saturation, 73°F	6.2	--	%	
Water Absorption				ASTM D570
Equilibrium, 50% RH	2.4	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	537000	--	psi	ISO 527-2
Tensile Strength (Break, 73°F)	12300	--	psi	ASTM D638
Tensile Stress (Break, 73°F)	12300	--	psi	ISO 527-2
Tensile Elongation (Break, 73°F)	4.9	--	%	ASTM D638
Tensile Strain (Break, 73°F)	4.9	--	%	ISO 527-2
Flexural Modulus (73°F)	474000	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	2.7	--	ft-lb/in ²	

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Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°F	0.84	--	ft·lb/in	
73°F	1.2	2.8	ft·lb/in	
Notched Izod Impact Strength				ISO 180
-40°F	1.9	--	ft·lb/in ²	
73°F	2.6	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
66 psi, Unannealed	383	--	°F	
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	320	--	°F	
Deflection Temperature Under Load				ASTM D648
264 psi, Unannealed	248	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	158	--	°F	
Peak Melting Temperature	428	--	°F	ASTM D3418
Melting Temperature (DSC)	428	--	°F	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (0.0591 in)	> 1.0E+15	--	ohms·cm	ASTM D257
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093

Notes

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