Ultramid® B3GM35 BKQ642 23220

Polyamide 6

BASF Corporation

Message:

Ultramid B3GM35 BKQ642 23220 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	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	--	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.40	--	%	
Water Absorption				
Saturation	5.7	--	%	ASTM D570
Saturation, 23°C	5.7	--	%	ISO 62
Equilibrium, 50% RH	1.7	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9000	--	MPa	ISO 527-2
Tensile Strength				
Break, 23°C	130	65.0	MPa	ASTM D638
Break, 23°C	130	--	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	2.7	--	%	ASTM D638, ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.9	--	kJ/m²	ISO 179
Notched Izod Impact				ASTM D256
-40°C	40	--	J/m	

23°C	53	130	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	215	--	°C	ASTM D648
0.45 MPa, Unannealed	214	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ASTM D648
1.8 MPa, Unannealed	198	--	°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+13	--	ohms·cm	ASTM D257
--	> 1.0E+13	--	ohms·cm	IEC 60093
Injection	Dry	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			

Recommended distributors for this material

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