

Ultramid® B3WM8 (8260 HS) BK00102

Polyamide 6

BASF Corporation

Message:

Ultramid B3WM8 (8260 HS) BK00102 is a heat stabilized, pigmented black, 40% mineral reinforced PA6 injection molding resin. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It maintains its inherent chemical resistance to greases, oils and hydrocarbons.

Applications

Ultramid B3WM8 (8260 HS) BK00102 is generally recommended for applications such as marine hardware, brackets, fittings, bobbins, office furniture, appliance components, and power tool housings.

General Information				
UL YellowCard		E36632-231137		
Filler / Reinforcement		Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Dimensional Stability		
		Good Processability		
		Grease Resistant		
		Heat Stabilized		
		High Heat Resistance		
		High Stiffness		
		Hydrocarbon Resistant		
		Low Warpage		
Uses		Oil Resistant		
		Appliance Components		
		Bobbins		
		Fittings		
		Furniture		
		Housings		
Agency Ratings		Marine Applications		
		EC 1907/2006 (REACH)		
		RoHS Compliant		
		Black		
		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.49	--	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.90	--	%	
Water Absorption				
24 hr	1.1	--	%	ASTM D570

23°C, 24 hr	1.1	--	%	ISO 62
Saturation	5.7	--	%	ASTM D570
Saturation, 23°C	5.7	--	%	ISO 62
Equilibrium, 50% RH	1.6	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.6	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
-40°C	8310	7700	MPa	
23°C	6400	3800	MPa	
80°C	1360	1400	MPa	
121°C	970	1200	MPa	
Tensile Strength				ASTM D638, ISO 527-2
Break, -40°C	135	135	MPa	
Break, 23°C	85.0	60.0	MPa	
Break, 80°C	40.0	35.0	MPa	
Break, 121°C	30.0	27.0	MPa	
Tensile Elongation				
Break, -40°C	6.0	5.0	%	ASTM D638
Break, 23°C	10	30	%	ASTM D638, ISO 527-2
Break, 80°C	35	30	%	ASTM D638
Break, 121°C	40	40	%	ASTM D638
Flexural Modulus (23°C)	5200	2100	MPa	ISO 178
Flexural Stress (23°C)	140	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	130	--	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	6.0	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418, ISO 3146
CLTE - Flow	5.0E-5	--	cm/cm/°C	ASTM E831
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	3.45 to 10.3		MPa	
Injection Rate	Fast			

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