



Ultramid® Endure D5G3 BM BK20560

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid Endure D5G3 BM BK20560 is a glass fiber reinforced blow molding grade with good sagging behavior, ideal swelling and excellent heat aging resistance up to at least 220 degC (428 degF).

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Heat Aging Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Blow Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
73°F	798000	psi	
302°F	247000	psi	
Tensile Stress			ISO 527-2
Break, 73°F	16700	psi	
Break, 302°F	6670	psi	
Tensile Strain			ISO 527-2
Break, 73°F	5.0	%	
Break, 302°F	17	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	2.1	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	23	ft·lb/in ²	
73°F	40	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	482	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	428	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146
CLTE - Flow	1.8E-5 to 1.9E-5	in/in/°F	
CLTE - Transverse	5.3E-5 to 7.2E-5	in/in/°F	

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Additional Information	Nominal Value	Unit
Blow Molding Drying Temperature	160	°F
Blow Molding Drying Time	2.0 to 4.0	hr
Blow Molding Melt Temperature	518 to 554	°F
Blow Molding Moisture Content	0.15	%
Blow Molding Mold Temperature	140 to 194	°F
Blow-up Ratio	2.0:1.0	

Notes

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