

Ultramid® BG40GM45 HS BK-130

Polyamide 6

BASF Corporation

Message:

An Ultramid® BG40GM45 HS BK-130 is a pigmented black, heat stabilized, 45 % combined glass and mineral reinforced polyamide 6 injection molding compound. It possesses a balance of engineering properties in combination with excellent dimension stability, low warp and resistance to sink-mark formation.

Ultramid® BG40GM45 HS BK-130 is ideally suited for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, shrouds, interior and exterior doorhandles.

General Information			
Filler / Reinforcement	Glass \mineral, 45% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Low warpage		
	Oil resistance		
	Thermal Stability		
Uses	Wheels		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	48	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B

1.8 MPa, not annealed	200	°C	ISO 75-2/A
Melting Temperature	220	°C	ISO 11357-3
Additional Information	Nominal Value		
Polymer Abbreviation	PA6-(MID+GF)45		
Screw Speed	mm/sec		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Hopper Temperature	80.0	°C	
Rear Temperature	270	°C	
Middle Temperature	280	°C	
Front Temperature	290	°C	
Nozzle Temperature	290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80.0 - 90.0	°C	
Injection instructions			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

