

Ultramid® 8262G HS BK-125

Polyamide 6

BASF Corporation

Message:

Ultramid 8262G HS BK-125 is a heat stabilized, pigmented black, 20% glass and mineral reinforced PA6 injection molding compound resulting in a balance of engineering properties with excellent dimensional stability, low warp and good resistance to sink mark formation.

Applications

Ultramid 8262G HS BK-125 is generally recommended for applications such as automotive housings, brackets, hubs, shrouds and roller bearings

General Information			
Filler / Reinforcement	Glass\Mineral,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability		
	Heat Stabilized		
	Low Warpage		
Uses	Automotive Applications		
	Bearings		
	Housings		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.80	%	
Water Absorption			
24 hr	1.3	%	ASTM D570
23°C, 24 hr	1.3	%	ISO 62
Saturation	7.9	%	ASTM D570
Saturation, 23°C	7.9	%	ISO 62
Equilibrium, 50% RH	2.2	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5300	MPa	ISO 527-2
Tensile Strength (Break, 23°C)	100	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	3.5	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	4600	MPa	ASTM D790, ISO 178
Flexural Strength (23°C)	160	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m ²	
23°C	3.3	kJ/m ²	
Notched Izod Impact			
23°C	35	J/m	ASTM D256
-40°C	3.0	kJ/m ²	ISO 180
23°C	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	211	°C	ISO 75-2/B
1.8 MPa, Unannealed	185	°C	ASTM D648
1.8 MPa, Unannealed	163	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418, ISO 3146
Injection	Nominal Value	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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