

# Ultramid® 8262G HS BK-102

Polyamide 6

BASF Corporation

**Product Description**  
Ultramid 8262G HS BK-102 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.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 7.0% Filler by Weight	• Mineral Filler, 13% Filler by Weight	
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flow	• Good Processability • Good Stiffness • Good Thermal Aging Resistance • Heat Stabilized	• Low Viscosity • Low Warp • Semi Crystalline
Uses	• Automotive Applications	• Bearings	• Industrial Applications
Agency Ratings	• ULC Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.29	g/cm <sup>3</sup>	ASTM D792
--	1290	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption			
24 hr	1.3	%	ASTM D570
24 hr, 23°C	1.3	%	ISO 62
Saturation	7.9	%	ASTM D570 ISO 62 <sup>2</sup>
Equilibrium, 50% RH	2.2	%	ASTM D570
Equilibrium	2.2	%	ISO 62 <sup>2</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	5200	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Break, 23°C	100	MPa	ASTM D638
Break	100	MPa	ISO 527-2 <sup>2</sup>
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2 <sup>2</sup>
Flexural Modulus			
23°C	4600	MPa	ASTM D790
23°C	4200	MPa	ISO 178
Flexural Strength (23°C)	170	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA <sup>2</sup>
-30°C	3.00	kJ/m <sup>2</sup>	
23°C	3.00	kJ/m <sup>2</sup>	
Notched Izod Impact			
23°C	45.0	J/m	ASTM D256
-40°C	3.00	kJ/m <sup>2</sup>	ISO 180
23°C	4.00	kJ/m <sup>2</sup>	ISO 180

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785

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备注：以上原料物性数据由厂家发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa	211	°C	ISO 75-2 <sup>2</sup>
1.8 MPa, Unannealed	193	°C	ASTM D648
1.8 MPa	163	°C	ISO 75-2 <sup>2</sup>
Melting Temperature	220	°C	ASTM D3418 ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	105	°C	UL 746
RTI Imp (1.50 mm)	105	°C	UL 746
RTI Elec (1.50 mm)	105	°C	UL 746
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
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		

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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