

Ultramid® 8232G HS FR BK-102

Polyamide 6

BASF Corporation

Product Description

Ultramid 8232G HS FR BK-102 is a 25% glass fiber reinforced, heat stabilized, flame retardant pigmented black PA6 injection molding compound exhibiting excellent melt stability characteristics. It combines flame retardant ability with an excellent balance of high strength, stiffness and heat distortion temperature.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Flame Retardant • Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flow	• Good Processability • Good Stiffness • Good Thermal Aging Resistance • Heat Stabilized • High Melt Stability	• High Stiffness • High Strength • Low Viscosity • Semi Crystalline
Uses	• Appliances	• Connectors	• Switches
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	1.62	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption			ASTM D570
Saturation	4.0	%	
Equilibrium, 50% RH	1.1	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	145	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.5	%	ASTM D638
Flexural Modulus (23°C)	9170	MPa	ASTM D790
Flexural Strength (23°C)	210	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80.0	J/m	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	205	°C	ASTM D648
Melting Temperature	220	°C	ASTM D3418

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	V-0		UL 94

UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	115	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Elec (1.50 mm)	130	°C	UL 746

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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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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Notes

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

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