

Ultramid® 8232G HS FR BK-102

Polyamide 6

BASF Corporation

Message:

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.

Applications

Ultramid 8232G HS FR BK-102 is generally recommended for applications such as connectors, terminal blocks, switches and receptacles, coil bobbins, and appliance housings.

General Information			
UL YellowCard	E36632-231124		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
	High Melt Stability		
	High Stiffness		
	High Strength		
Uses	Appliances		
	Bobbins		
	Connectors		
	Housings		
	Switches		
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	1.62	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	
Water Absorption			ASTM D570
Saturation	4.0	%	
Equilibrium, 50% RH	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
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	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
RTI Elec			UL 746
0.840 mm	130	°C	
1.50 mm	130	°C	
2.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
0.840 mm	115	°C	
1.50 mm	115	°C	
2.50 mm	115	°C	
3.00 mm	115	°C	
RTI Str			UL 746
0.840 mm	105	°C	
1.50 mm	115	°C	
2.50 mm	115	°C	
3.00 mm	120	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.840 mm	V-0		
1.50 mm	V-0		
	V-0		
2.50 mm	5VA		
	V-0		
3.00 mm	5VA		
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	

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