Ultramid® 8232G HS FR

Polyamide 6

BASF Corporation

Message:

Ultramid 8232G HS FR is a 25% glass fiber reinforced, heat stabilized, flame retardant 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 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	Appliance Components Bobbins Connectors Housings Switches		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.62	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	
Water Absorption			ASTM D570
24 hr	0.90	%	
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)	157	MPa	ASTM D638

Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638
Flexural Modulus (23°C)	8970	MPa	ASTM D790
Flexural Strength (23°C)	232	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	195	°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	105	°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	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (1.50 mm)	> 1.0E+13	ohms·cm	ASTM D257
Dielectric Strength [1] (1.50 mm)	29	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**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	

NOTE	
1.	Method A (Short-Time)

Recommended distributors for this material

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