Product Information

Ultramid® 8232G HS FR
Polyamide 6

BASF
The Chemical Company

Product Description

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.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.62	
Mold Shrinkage (1/8" bar, in/in)		0.003	
Moisture, %	D-570		
(24 Hour)		0.9	
(50% RH)		1.1	
(Saturation)		4	
MECHANICAL	**ASTM Test Method**	**Dry**	**Conditioned**
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		157 (22,800)	-
Elongation, Break, %	D-638		
23C (73F)		3	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		8,970 (1,300,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		232 (33,600)	-
Rockwell Hardness, R Scale	D-785	121	-
IMPACT	**ASTM Test Method**	**Dry**	**Conditioned**
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		107 (2.0)	-
THERMAL	**ASTM Test Method**	**Dry**	**Conditioned**
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	195 (383)	-
UL RATINGS	**UL Test Method**	**Property Value**	
Flammability Rating, 1.5mm	UL94	V-0	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		115	
Mechanical w/ Impact, C		115	
Electrical, C		130	
Flammability Rating, 2.5mm	UL94	V-0/-5VA	
Relative Temperature Index, 2.5mm	UL746B		
Mechanical w/o Impact, C		115	
Mechanical w/ Impact, C		115	
Electrical, C		130	

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ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	>1E13	-
Dielectric Strength, Short Time, 1.5 mm	D-149	29	-