

Ultramid® 8232G HS FR BK-102

Polyamide 6



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.

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.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.62	
Mold Shrinkage (1/8" bar, in/in)		0.003	
Moisture, %	D-570		
(50% RH)		1.1	
(Saturation)		4	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		145 (21,000)	-
Elongation, Break, %	D-638		
23C (73F)		2.5	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		9,170 (1,330,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		210 (30,400)	-
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)		80 (1.5)	-
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	205 (401)	-
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	

