

Ultramid® 8202 HS BK-102

Polyamide 6



Product Description

Ultramid 8202 HS BK-102 is an unreinforced, heat stabilized, pigmented black, low viscosity, general purpose injection molding PA6 exhibiting excellent fluidity for filling thin sections. It possesses the combination of strength, stiffness and toughness properties as well as excellent chemical, thermal and abrasion resistance. The heat stabilizer system extends its retention of properties at elevated temperatures.

Applications

Ultramid 8202 HS BK-102 is generally recommended for applications such as drapery hardware, gears, fittings, furniture casters, bearings, handles, clips and fasteners.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.13	
Mold Shrinkage (1/8" bar, in/in)		0.012	
Moisture, %	D-570		
(24 Hour)		1.6	
(50% RH)		2.7	
(Saturation)		9.5	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Yield, MPa (psi)	D-638		
23C (73F)		85 (12,300)	36 (5,220)
Elongation, Yield, %	D-638		
23C (73F)		4	16
Elongation, Break, %	D-638		
23C (73F)		50	>100
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		2,830 (410,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		108 (15,700)	35 (5,070)
Rockwell Hardness, R Scale	D-785	119	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		55 (1.0)	-
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	65 (149)	-
Heat Deflection @ 66 psi (.45 MPa) C(F)	D-648	178 (352)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.83 X10-4	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	V-2	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		105	
Mechanical w/ Impact, C		105	
Electrical, C		130	

