

# Ultramid® 8267G HS BK-102

## Polyamide 6



### Product Description

Ultramid 8267G HS BK-102 is a heat stabilized, black pigmented, 40% mineral and glass fiber reinforced PA6 injection molding compound. It possesses a balance of engineering properties in combination with excellent dimensional stability, low warp and resistance to sink-mark formation. It exhibits high strength, rigidity, and good heat distortion temperature. It resists creep under load and the heat stabilizer system extends its retention of properties at elevated temperatures. It has good chemical resistance to greases, oils and hydrocarbons.

### Applications

Ultramid 8267G HS BK-102 is generally recommended for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans and shrouds.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.48	
Mold Shrinkage (1/8" bar, in/in)		0.004	
Moisture, %	D-570		
(24 Hour)		0.9	
(50% RH)		1.6	
(Saturation)		5.7	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		130 (18,900)	67 (9,720)
Elongation, Break, %	D-638		
23C (73F)		3	14
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		7,930 (1,150,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		215 (31,200)	-
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)		55 (1.0)	-
Drop Weight Impact, ft-lbs, 23C	BASF Drop Weight Impact Test	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	202 (395)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.31 X10-4	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		105	
Mechanical w/ Impact, C		105	



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Electrical, C

105

ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	>1E13	-

