Product Information

Ultramid® 8267G HS BK-106
Polyamide 6

BASF
The Chemical Company

Product Description

Ultramid 8267G HS BK-106 is a heat stabilized, weather resistant, 40% mineral and glass fiber reinforced PA6 injection molding compound with improved UV resistance and sink mark resistance. The combination of mineral and glass fibers result in a high performance, low warp and cost effective engineering thermoplastic. It exhibits high strength, good UV resistance, rigidity and good heat distortion temperatures. It has a relatively high resistance to creep under load. 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-106 is generally recommended for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, shrouds and all external parts exposed to the environment.

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		
-40C (-40F)		178 (25,800)	-
23C (73F)		125 (18,100)	-
80C (176F)		59 (8,560)	-
121C (250F)		51 (7,400)	-
Elongation, Break, %	D-638		
-40C (-40F)		3	-
23C (73F)		2	-
80C (176F)		13	-
121C (250F)		11	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		7,580 (1,100,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		200 (29,000)	-
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)	-
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	-