Product Information

Ultramid® 8267G HS BK-102
Polyamide 6

BASF
The Chemical Company

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	ISO Test Method	Property Value	
Density, g/cm	1183	1.48	
Moisture, %	62		
(24 Hour)		0.9	
(50% RH)		1.6	
(Saturation)		5.7	
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
-40C		9,790	-
23C		8,300	4,160
80C		3,530	-
121C		2,740	-
Tensile stress at break, MPa	527		
23C		125	67
Tensile strain at break, %	527		
23C		3	14
Flexural Strength, MPa	178		
23C		195	90
Flexural Modulus, MPa	178		
23C		7,200	3,680
Ball Indentation, MPa	2039-1	220	-
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Izod Notched Impact, kJ/m^2	180		
23C		6	-
-40C		4	-
Charpy Notched, kJ/m^2	179		
23C		5	-
-30C		3.5	-
Charpy Unnotched, kJ/m^2	179		
23C		52	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, C	3146	220	-

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HDT A, C	75	200	-
HDT B, C	75	215	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.3 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.67 X10-4	-
ELECTRICAL	**ISO Test Method**	**Dry**	**Conditioned**
Volume Resistivity	IEC 60093	>1E13	-
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	
Electrical, C		105	