

# Ultramid® 8233G HS BK-106

## Polyamide 6



### Product Description

Ultramid 8233G HS BK-106 is a heat stabilized, weather resistant, 33% glass fiber reinforced PA6 injection molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. This balance of engineering properties in combination with excellent processability make it ideal in applications replacing metal, resulting in an overall cost and weight savings.

### Applications

Ultramid 8233G HS BK-106 is generally recommended for applications such as weed trimmer components, gears, automotive window hardware, electrical connectors and coil bobbins and all external parts exposed to the environment.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.39	
Moisture, %	62		
(24 Hour)		1.1	
(50% RH)		1.8	
(Saturation)		6.4	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
-40C		10,400	11,500
23C		10,500	7,700
80C		4,660	4,600
121C		4,015	4,200
Tensile stress at break, MPa	527		
-40C		210	215
23C		155	100
80C		85	70
121C		70	60
Tensile strain at break, %	527		
23C		2	6
Flexural Strength, MPa	178		
23C		225	-
Flexural Modulus, MPa	178		
23C		8,700	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>	180		
23C		8.5	-
-40C		6	-
Charpy Notched, kJ/m <sup>2</sup>	179		
23C		8	-
-30C		5.5	-
Charpy Unnotched, kJ/m <sup>2</sup>	179		
23C		55	-



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THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	205	-
HDT B, C	75	215	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Volume Resistivity	IEC 60093	>1E13	-

