Product Information

Ultramid® 8231G HS BK-106
Polyamide 6

BASF
The Chemical Company

Product Description

Ultramid 8231G HS BK-106 is a black pigmented heat stabilized, 15% glass fiber reinforced PA6 injection molding compound. The glass fiber reinforcement enhances performance such as strength, stiffness and heat deflection temperature. The heat stabilizer system extends the properties at elevated temperatures. It also has excellent chemical resistance to greases, oils and hydrocarbons.

Applications

Ultramid 8231G HS BK-106 is ideally suited for more demanding performance applications such as washers, gears, engine and motor parts, chutes, and higher temperature environments.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.23	
Mold Shrinkage (1/8" bar, in/in)		0.005	
Moisture, %	D-570		
(24 Hour)		1.4	
(50% RH)		2.3	
(Saturation)		8.1	
MECHANICAL	**ASTM Test Method**	**Dry**	**Conditioned**
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		118 (17,100)	-
Elongation, Break, %	D-638		
23C (73F)		2.9	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		4,940 (716,000)	-
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)		43 (0.8)	-
Drop Weight Impact, ft-lbs, 23C	BASF Drop Weight Impact Test	2	-
THERMAL	**ASTM Test Method**	**Dry**	**Conditioned**
Melting Point, C(F)	D-3418	220 (428)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.5 X10-4	-