

# Ultramid® B3WG10 BK00564

## Polyamide 6

### Product Description

This resin is a heat stabilized, 50% glass fiber reinforced PA6 injection molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. It is available in natural, black weather resistant and pigmented versions.

### Applications

Ultramid B3WG10 BK00564 is generally recommended for applications such as power tool housings, cattle ear taggers, luggage frames, fans and pressure regulator housings.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.56	
Moisture, %	62		
(50% RH)		1.4	
(Saturation)		4.8	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		16,700	-
Tensile stress at break, MPa	527		
23C		225	-
Tensile strain at break, %	527		
23C		2.5	-
Flexural Strength, MPa	178		
23C		345	-
Flexural Modulus, MPa	178		
23C		14,500	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>	180		
23C		15	-
-40C		12	-
Charpy Notched, kJ/m <sup>2</sup>	179		
23C		15	-
Charpy Unnotched, kJ/m <sup>2</sup>	179		
23C		90	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	215	-
HDT B, C	75	220	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Dielectric Strength, KV/mm	IEC 60243-1	>1E13	-

