

BASF Ultramid® B3WG7

Ultramid B3WG7 BK00564 is a 35% glass fiber reinforced, pigmented black, injection molding PA6 grade for highly rigid, dimensionally stable components which are resistant to high

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183

Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD
-----------------------	--------------	--------------	---------------

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	188 MPa	27300 psi	5mm/min; ISO 527

Elongation at Break	2.9 %	2.9 %	5mm/min; ISO 527
---------------------	-------	-------	------------------

Tensile Modulus	12.6 GPa	1830 ksi	1mm/min; ISO 527
-----------------	----------	----------	------------------

Flexural Modulus	9.72 GPa	1410 ksi	ISO Data
------------------	----------	----------	----------

Izod Impact, Notched (ISO)	11.2 kJ/m ²	5.33 ft-lb/in ²	ISO Test
----------------------------	------------------------	----------------------------	----------

Charpy Impact, Notched	0.920 J/cm ²	4.38 ft-lb/in ²	ISO 179
------------------------	-------------------------	----------------------------	---------

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min

Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75
---	--------	--------	--------

Descriptive Properties			
Color	BK00564		

Commercial Status	Active America
-------------------	----------------

Impact Modified	No
-----------------	----

Primary Processing Technique	Injection Molding
------------------------------	-------------------