Product Information

Ultramid[®] B3WG6 GIT BK807 Polyamide 6



Product Description

Ultramid B3WG6 GIT BK807 is a 30% glass fiber reinforced, pigmented black, heat stabilized injection molding PA6 grade offering excellent flow characteristics, UV stability and is paintable.

Applications

Typical applications include door handles, roof racks and power tools.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.35	
Moisture, %	62		
(50% RH)		2.1	
(Saturation)		6.6	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		9,400	-
Tensile stress at break, MPa	527		
23C		175	-
Tensile strain at break, %	527		
23C		3	-
Flexural Modulus, MPa	178		
23C		8,500	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		10	-
Charpy Notched, kJ/m ²	179		
23C		9.5	-
-30C		7	-
Charpy Unnotched, kJ/m ²	179		
23C		65	-
-30C		55	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	205	-
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Mold Temperature 80-95 degC (176-203 degF) Injection and Packing Pressure 35-125 bar (500-1500 psi)

Mold Temperatures

This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics are critical, a mold surface temperature of 80-95 degC (176-203 degF) is recommended.

Pressures

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. Minimal back pressure should be utilized to prevent glass breakage.

Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing. Surface appearance is directly affected by injection rate.

Note

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