

Features

BG30 is GF 30% reinforced Polyamide6. BG30 has good mechanical properties.

Drying

Product is dried and packed with a moisture content of \leq 0.16%. Should the Packaging become damaged or be left open too long, then the material must be Dried. A too high moisture content can lead to a reduction of optical and Mechanical properties.

Molding Guideline

		Unit	Setting
Drying Temp.		°C	80 ~ 100
Drying Time		hr	4 ~ 5
	Rear	°C	250 ~ 270
Cylinder Temp.	Middle	°C	260 ~ 285
	Front	°C	260 ~ 290
Nozzle Temp.		°C	260 ~ 290
Resin Temp.		°C	260 ~ 290
Mold Temp.		°C	80 ~ 100
Injection Speed		%	40 ~ 70
Injection Pressure	1st Pressure	%	20 ~ 50
	2 nd Pressure	%	20 ~ 50
	Back Pressure	%	0 ~ 20

Handling and safety

Detailed information can be obtained from the "Material Safety Data Sheet" (MSDS) Which can be requested with every material order.

445-931) #110-15 Yodang-ri, Yanggam-myeon, Hwasung-si, Kyunggi-do

Tel: +82-31-352-0800 / Fax: +82-31-352-0862

TEKAMID™ BG30



Mechanical Properties

	Test condition	Test Method	Unit	BG30
Tensile Strength at Break	5mm/min	ASTM D638	kgf/cm²	1,550
Elongation at Break	5mm/min	ASTM D638	%	3.0
Flexural Strength	3mm/min	ASTM D790	kgf/cm²	2,500
Flexural Modulus	3mm/min	ASTM D790	kgf/cm²	80,000
Notch Izod Impact	23°C(1/8")	ASTM D256	kgf⋅cm/cm	10.0
Strength	-30°C(1/8")	ASTM D256	kgf⋅cm/cm	-
Rockwell Hardness	R-Scale	ASTM D785	-	-
Thermal Properties		-		
Heat Deflection Temp.	4.6 kgf/cm ²	ASTM D648	°C	220
Heat Deflection Temp.	18.6 kgf/cm²	ASTM D648	°C	210
Melting Point	DSC	ASTM D3418	°C	220
Flammability		UL94	-	НВ
Electrical Properties				
Volume Resistance		ASTM D257	Ohm · cm	-
Dielectric Constant(106)Hz		ASTM D150	-	-
Dielectric Strength		ASTM D149	KV/mm	-
Arc Resistance		ASTM D495	Sec	-
Physical Properties				
Specific Gravity		ASTM D792	-	1.38
Water Absorption	23°C, 24hr	ASTM D570	%	1.7
Melt Flow Index		ASTM D1238	g/10min	_

Test condition: Dry as Molded

Shrinkage

These values are for these specific compositions only. Addition of any kind may alter some or all of these properties. The data listed here fall within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design.

ASTM D955

For further information on products, please contact customer service of HYUNDAI Advanced Materials.

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