

UBESTA 3024GU6L1

Technical Product Information

UBESTA 3024GU6L1 is a 30% glass fiber reinforced Polyamide 12 for injection moulding application. This material has following features:

- Superior mechanical properties
- Excellent heat resistance
- Excellent moldability, easy mold release

Basic Properties ⁽¹⁾		Method	Unit	Value
Polymer		-	-	PA12
Colour		-	-	Black
Density		ISO 1183-3	g/cm ³	1,24
Melting Point		ISO 11357	°C	175 - 181

Mechanical Properties ⁽²⁾		Method	Unit	Value
Tensile strength		ISO 527-1,2	MPa	115
Tensile strain at break			%	6
Tensile modulus			MPa	6700
Flexural strength		ISO 178	MPa	175
Flexural modulus			MPa	5800
Charpy impact strength (notched) ⁽³⁾	23 °C	ISO 179/1eA	kJ/m ²	24 C

Thermal Properties ⁽²⁾		Method	Unit	Value
Temp. of deflection under load	0,45 MPa	ISO 75-2	°C	177
	1,80 MPa		°C	161
Coefficient of linear expansion		ISO 11359-2	x 10 ⁻⁴ /K	0,3

Others ⁽⁴⁾		Method	Unit	Value
Molding shrinkage	MD	UBE Method	%	0,2
	TD		%	0,8

Note: All tests carried dry as mould

(1) Measured on pellets

(2) Measured on injection-moulded specimens, based on ISO type

(3) P=partial break, C=complete break

(4) Sample dimension is 30x100x3mm

Processing conditions

Temperature (°C)	Cylinder					Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	
	40 - 120	210-230	230 - 250	240 - 260	240 - 260	240 - 260

Drying conditions

UBESTA is supplied dry (moisture content < 0,1%) and packed in high barrier films. However, as polyamide is a hygroscopic material, the user should take a special care of the possible moisture absorption once the bag or liner box has been opened. In case of moisture absorption, the material should be dried with dehumidified air at 80°C for more than 4 hours.

Storage

Well-sealed packages could be stored in cool and dry conditions over long periods of time. Protect the packages from heat and direct sunlight to prevent possible damages.

Health & environmental data

Please refer to the corresponding **UBESTA** grade Safety Data Sheet (SDS).

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