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UBESTA 3030LI3

Technical Product Information

UBESTA 3030LI3 is an impact modified Polyamide 12 suitable for coolant lines. Material shows improved hydrolysis resistance. This material has following features:

- Excellent mechanical properties
- Superior cold impact resistance
- Excellent processability

Basic Properties (1)		Method	Unit	Value
Polymer		-	-	PA12
Colour		-	-	Black
Density		ISO 1183-3	g/cm^3	0,97
Melting Point		ISO 11357	°C	178
MFI @ 300 °C, 10 Kg		ISO 1133	g/10 min	3
Shore Hardness	D scale	ISO 868	-	65
Rockwell Hardness	R scale	ISO 2039-2	-	45

Mechanical Properties (2)		Method	Unit	Value
Tensile stress at break		ISO 527-1,2	MPa	37
Tensile strain at break			%	> 100
Flexural strength		ISO 178	MPa	28
Flexural modulus			MPa	750
Charpy impact strength (notched) (3)	23 °C	ISO 179/1eA	kJ/m^2	100 P
	-40 °C		kJ/m^2	98 C

Thermal Properties (2)		Method	Unit	Value
Temp. of deflection under load	0,45 MPa	ISO 75-2	°C	65
	1,80 MPa		°C	42
Coefficient of linear expansion		ISO 11359-2	x 10^{-4} /K	2,3

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

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Processing conditions

	Extruder						Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	
Temperature (°C)	40 - 120	220 - 240	230 - 250	250 - 270	250 - 270	250 - 270	250 - 270

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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