

Durethan® 1100/30H2.0 901510
PA6-GB30

Envalior

Injection Molding, 30% Glass Beads Reinforced, Heat Stabilized, Excellent Surface Properties, Low Warpage

ISO 1043 PA6-GB30

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	4400 / 1350	MPa	ISO 527
Stress at Break	70 / -	MPa	ISO 527
Strain at Break	4.5 / -	%	ISO 527
Impact Strength (Charpy), +23°C	35 / 170	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	30 / 30	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	- / 10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	- / 10	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	4000 / 1200	MPa	ISO 178
Flexural strength	120 / 45	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	10 / 10	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	10 / 10	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	30 / 170	kJ/m²	ISO 180/1U
Ball Indentation Hardness	175 / 65	MPa	ISO 2039-1

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	180 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	80 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	80 / *	E-6/K	ISO 11359-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m³	ISO 1183
Bulk density	800	kg/m³	-

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 120	°C	-

Characteristics
Processing

Injection Molding

Special Characteristics

Heat aging stabilized

Delivery form

Pellets

Features

Low Warpage

Additives

Release agent

Injection Molding

PREPROCESSING

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Residual moisture content: 0.03 - 0.12%
Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 270 - 290 °C

Mold temperature: 80 - 120 °C
