

Durethan® 1100/30H2.0

PA6—GB30

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

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	4400 / 1350	MPa	ISO 527-1/-2
Stress at break	70 / —	MPa	ISO 527-1/-2
Strain at break	4.5 / —	%	ISO 527-1/-2
Flexural modulus	4000 / 1200	MPa	ISO 178
Flexural strength	120 / 45	MPa	ISO 178
Charpy impact strength (+23°C)	35 / 170	kJ/m²	ISO 179/1eU
Charpy impact strength (−30°C)	30 / 30	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (−30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / <10	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
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)	0.8 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	DRY / COND		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1350 / —	kg/m³	ISO 1183

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	
Residual moisture content	0.03–0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	