Property Data

Envalior
Imagine the Future

Durethan® BG30XH2.0XF

PA6-(GF+GB)30

Injection Molding, 30% Glass Fiber/Glass Beads, Heat Stabilized, Improved flow, Excellent Surface Properties, Low Warpage

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	5300 / 2800	MPa	ISO 527-1/-2
Stress at break	90 / 45	MPa	ISO 527-1/-2
Strain at break	3.2 / 6.5	%	ISO 527-1/-2
Flexural modulus	5000 / 2700	MPa	ISO 178
Flexural strength	145 / 85	MPa	ISO 178
Charpy impact strength (+23°C)	50 / 55	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 35	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)	185 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.1 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	DRY / COND		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Comparative tracking index	475 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Density	1320 / –	kg/m³	ISO 1183
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)	250–290	°C	
Mold temperature	80–100	°C	