

Print Date: 2024-12-10

Durethan[®] BG30XH2.0

PA6-(GF+GB)30

Injection Molding, 30% Glass Fiber/Glass Beads, Heat Stabilized, Low Warpage

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
FHOFEMILE	TIFICAL DATA	UNIT	
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.55 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6300 / 3100	MPa	ISO 527-1/-2
Stress at break	120 / 60	MPa	ISO 527-1/-2
Strain at break	3.5 / 10	%	ISO 527-1/-2
Flexural modulus	5800 / 2700	MPa	ISO 178
Flexural strength	185 / 95	MPa	ISO 178
Tensile modulus (200°C)	1590	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	35 / 70	kJ∕m²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 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 / 12	kJ∕m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190 / *	°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)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Oxygen index	23 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	650 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2/-	mm	IEC 60695-2-12
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4.5 / -	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / -	_	IEC 62631-2-1
Dissipation factor (100 Hz)	223 / -	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	189 / -	E-4	IEC 62631-2-1
Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Electric strength	33 / -	kV/mm	IEC 60243-1
Comparative tracking index	325 / -	V	IEC 60112
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
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	

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