

Durethan[®] BKV230W1

PA*—GF30

30% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8200 / 4500	MPa	ISO 527-1/-2
Stress at break	130 / 80	MPa	ISO 527-1/-2
Strain at break	4 / 9	%	ISO 527-1/-2
Flexural modulus	7500 / 4300	MPa	ISO 178
Flexural strength	210 / 120	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	25 / 40	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 15	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	25 / 40	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	213 / *	°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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	DRY / COND		

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Relative permittivity (100Hz)	3.8 / 14	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.6 / 4.1	–	IEC 62631-2-1
Dissipation factor (100 Hz)	70 / 3900	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	140 / 780	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Electric strength	43 / 30	kV/mm	IEC 60243-1
Comparative tracking index	475 / –	V	IEC 60112

OTHER PROPERTIES

DRY / COND

Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1320 / –	kg/m ³	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)	260-290	°C	
Mold temperature	80-100	°C	

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