

Durethan® BKV30GW1

PA6–GF30

30% Glass Reinforced, Injection Molding

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9900 / 6600	MPa	ISO 527–1/–2
Stress at break	180 / 106	MPa	ISO 527–1/–2
Strain at break	2.7 / 6.1	%	ISO 527–1/–2
Flexural modulus	8700 / 6300	MPa	ISO 178
Flexural strength	270 / 177	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 65	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	50 / 40	kJ/m ²	ISO 179/1eU
Izod notched impact strength (+23°C)	10 / 10	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	219 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	215 / *	°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)	0.8 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES			
	DRY / COND		
Comparative tracking index	500 / –	V	IEC 60112

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
OTHER PROPERTIES			
Water absorption	6.4 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m ³	ISO 1183
PROCESSING RECOMMENDATIONS			
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	

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