

Durethan® BKV30W1 DUS037

PA6—GF30

30% Glass Fiber Reinforced, Injection Molding, Heat Stabilized

Print Date: 2025-10-02

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9600 / 6000	MPa	ISO 527-1/-2
Stress at break	180 / 110	MPa	ISO 527-1/-2
Strain at break	3.6 / 7	%	ISO 527-1/-2
Flexural modulus	9000 / 5200	MPa	ISO 178
Flexural strength	280 / 160	MPa	ISO 178
Tensile modulus (200°C)	2500	MPa	ISO 527-1/-2
Stress at break (200°C)	47	MPa	ISO 527-1/-2
Strain at break (200°C)	12.8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 11	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	14 / 20	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)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°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)	0.7 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES	DRY / COND		
Water absorption	6.5 / *	%	Sim. to ISO 62

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / –	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)	270–290	°C	
Mold temperature	80–120	°C	

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