

Durethan® BKV15W1 DUS037

PA*—GF15

15% Glass Reinforced, Injection Molding, Heat Stabilized

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6000 / 3000	MPa	ISO 527-1/-2
Stress at break	125 / 75	MPa	ISO 527-1/-2
Strain at break	3 / 12	%	ISO 527-1/-2
Flexural modulus	5200 / 3100	MPa	ISO 178
Flexural strength	200 / 120	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
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)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	DRY / COND		
Density	1230 / -	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

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Melt temperature (Tmin – Tmax)	260–290	°C	
Mold temperature	80–100	°C	

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