

Durethan[®] BKV50H3.0 DUS037

PA6-GF50

50% Glass Fiber Reinforced, Injection Molding, Heat Stabilized

Print Date: 2025-09-06

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	16300 / 9800	MPa	ISO 527-1/-2
Stress at break	230 / 150	MPa	ISO 527-1/-2
Strain at break	3.2 / 5	%	ISO 527-1/-2
Flexural modulus	15500 / 9700	MPa	ISO 178
Flexural strength	360 / 230	MPa	ISO 178
Tensile modulus (200°C)	4750	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	100 / 105	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 13	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 25	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)	210 / *	°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)	0.1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES	DRY / COND		
Water absorption	4.7 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1560 / –	kg/m³	ISO 1183

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or

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Property Data

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

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Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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