

Durethan[®] BKV50H3.0

<u> PA6–GF50</u>

50% Glass Reinforced, Injection Molding, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	16800 / 10200	MPa	ISO 527-1/-2
Stress at break	225 / 140	MPa	ISO 527-1/-2
Strain at break	3/5	%	ISO 527-1/-2
Flexural modulus	15500 / 9900	MPa	ISO 178
Flexural strength	360 / 230	MPa	ISO 178
Tensile modulus (200°C)	4920	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	100 / 110	kJ∕m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 90	kJ∕m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ∕m²	ISO 179/1eA
Charpy notched impact strength $(-30^{\circ}C)$	15 / 15	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)	222 / *	°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)	215 / *	°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
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10

Print Date: 2024-12-10

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Property Data Durethan[®] BKV50H3.0

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	650 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2/-	mm	IEC 60695-2-12
OTHER PROPERTIES	DRY / COND		
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1570 / -	kg∕m³	ISO 1183
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
Melt temperature~(Tmin-Tmax)	270–290	°C	
Mold temperature	80–120	°C	

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