

Durethan® BKV30H2.0LT

PA6—GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Laser Transparent Black

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9500 / 5900	MPa	ISO 527-1/-2
Stress at break	170 / 100	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Flexural modulus	8300 / 5000	MPa	ISO 178
Flexural strength	270 / 160	MPa	ISO 178
Charpy impact strength (+23°C)	80 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	70 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 20	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	222 / *	°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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	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
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	22 / *	%	ISO 4589-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>ELECTRICAL PROPERTIES</b>			
<b>DRY / COND</b>			
Relative permittivity (100Hz)	4.2 / 12	—	IEC 62631-2-1
Relative permittivity (1 MHz)	3.8 / 4.4	—	IEC 62631-2-1
Dissipation factor (100 Hz)	100 / 2550	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	170 / 780	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	40 / 35	kV/mm	IEC 60243-1
Comparative tracking index	425 / —	V	IEC 60112
<b>OTHER PROPERTIES</b>			
<b>DRY / COND</b>			
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1360 / —	kg/m³	ISO 1183
<b>MATERIAL SPECIFIC PROPERTIES</b>			
<b>DRY / COND</b>			
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628
<b>PROCESSING RECOMMENDATIONS</b>			
<b>VALUE</b>			
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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