

Durethan® BKV30 000000

PA6–GF30

Print Date: 2024–01–19

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294–4
Molding shrinkage (normal)	0.75 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9800 / 6100	MPa	ISO 527–1/–2
Stress at break	170 / 105	MPa	ISO 527–1/–2
Strain at break	3 / 6	%	ISO 527–1/–2
Charpy impact strength (+23°C)	80 / 95	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	70 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 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)	220 / *	°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
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	0.75 / *	mm	IEC 60695–11–10
Oxygen index	22 / *	%	ISO 4589–1/–2
ELECTRICAL PROPERTIES	DRY / COND		

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Relative permittivity (100Hz)	4 / 10	—	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 5	—	IEC 62631-2-1
Dissipation factor (100 Hz)	50 / 2000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 1200	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
Electric strength	40 / 35	kV/mm	IEC 60243-1
Comparative tracking index	600 / —	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1360 / —	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628

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