

Durethan® BKV30H3.0EF

PA6-GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9400 / 5500	MPa	ISO 527-1/-2
Stress at break	170 / 100	MPa	ISO 527-1/-2
Strain at break	3 / 5.8	%	ISO 527-1/-2
Flexural modulus	8400 / 5000	MPa	ISO 178
Flexural strength	260 / 170	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / 55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 20	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	221 / *	°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)	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)	1/*	E-4/°C	ISO 11359-1/-2
Glow Wire Flammability Index GWFI	675 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Glow Wire Flammability Index GWFI	700 / –	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	700 / –	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / –	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	675 / –	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-13
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.63 / 4.04	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4.43 / 9.23	_	IEC 62631-2-1
Dissipation factor (100 Hz)	0.02 / 0.08	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	0.03 / 0.13	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / 7.7E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 4.1E14	Ohm	IEC 62631-3-2
Electric strength	31.6 / 29.1	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
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)	260-280	°C	
Mold temperature	80–120	°C	

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