Property Data

Envalior
Imagine the Future

Durethan® BKV30H2.0

PA6–GF30

30% Glass Fiber Reinforced, Injection Molding, Heat Stabilized

Print Date: 2025–04–01

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.69 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9500 / 5800	MPa	ISO 527–1/–2
Stress at break	170 / 100	MPa	ISO 527–1/–2
Strain at break	3.5 / 6	%	ISO 527–1/–2
Flexural modulus	8500 / 5000	MPa	ISO 178
Flexural strength	270 / 160	MPa	ISO 178
Tensile modulus (200°C)	2950	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	75 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	65 / 60	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
Izod notched impact strength (+23°C)	10 / 20	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)	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)	1 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Glow Wire Flammability Index GWFI	700 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5 / –	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES	DRY / COND		
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	35 / 30	kV/mm	IEC 60243-1
Comparative tracking index	425 / –	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

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature dry air dryer	80	°C

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
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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