Property Data

Envalior
Imagine the Future

Durethan® BKV30

PA6–GF30

30% Glass Fiber Reinforced, Injection Molding

Print Date: 2026–10–16

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	9600 / 6000	MPa	ISO 527–1/–2
Stress at break	180 / 110	MPa	ISO 527–1/–2
Strain at break	3.6 / 7	%	ISO 527–1/–2
Flexural modulus	9000 / 5200	MPa	ISO 178
Flexural strength	280 / 160	MPa	ISO 178
Tensile modulus (200°C)	2500	MPa	ISO 527–1/–2
Stress at break (200°C)	47	MPa	ISO 527–1/–2
Strain at break (200°C)	12.8	%	ISO 527–1/–2
Charpy impact strength (+23°C)	90 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	11 / 11	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	14 / 20	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°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)	220 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Oxygen index	22 / *	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	600 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695–2–12

ELECTRICAL PROPERTIES	DRY / COND		
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	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	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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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
PROCESSING RECOMMENDATIONS	***VALUE***		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	

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