Property Data

Envalior
Imagine the Future

Durethan® BKV20GH2.0

PA6–GF20

20% Glass Fiber Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties

Print Date: 2025–10–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.35 / *	%	ISO 294–4
Molding shrinkage (normal)	0.54 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	7600 / –	MPa	ISO 527–1/–2
Stress at break	150 / –	MPa	ISO 527–1/–2
Strain at break	3 / –	%	ISO 527–1/–2
Flexural modulus	6400 / –	MPa	ISO 178
Flexural strength	225 / –	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	40 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / –	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / –	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / <10	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)	215 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	213 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.23 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.89 / *	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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
ELECTRICAL PROPERTIES	**DRY / COND**		
Relative permittivity (100Hz)	4.1 / 9.34	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.74 / 4.27	–	IEC 62631–2–1
Dissipation factor (100 Hz)	80 / 2200	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	180 / 650	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / 1E10	Ohm*m	IEC 62631–3–1
Surface resistivity	* / 2E13	Ohm	IEC 62631–3–2
OTHER PROPERTIES	**DRY / COND**		
Density	1280 / –	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	
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	