Property Data

Envalior
Imagine the Future

Durethan® BKV60XF

PA6–GF60

60% Glass Fiber Reinforced, Injection Molding, Heat Stabilized, High Flow

Print Date: 2025–08–21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**DRY / COND**		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294–4
Molding shrinkage (normal)	0.52 / *	%	ISO 294–4
MECHANICAL PROPERTIES	**DRY / COND**		
Tensile modulus	20200 / 13000	MPa	ISO 527–1/–2
Stress at break	215 / 140	MPa	ISO 527–1/–2
Strain at break	2.3 / 2.8	%	ISO 527–1/–2
Flexural modulus	18500 / 14000	MPa	ISO 178
Flexural strength	350 / 230	MPa	ISO 178
Tensile modulus (200°C)	5760	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	88 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / –	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / –	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)	208 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	217 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.11 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.85 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	**DRY / COND**		
Density	1690 / –	kg/m³	ISO 1183

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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	
Residual moisture content	0.05–0.15	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	