Property Data

Envalior
Imagine the Future

Durethan® BLUEBKV60EF DUS097

PA6–GF60

60% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow, Recycled Content

Print Date: 2024–12–19

Sustainability

Bio–based
Mass balanced
Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	19400 / 12000	MPa	ISO 527–1/–2
Stress at break	230 / 150	MPa	ISO 527–1/–2
Strain at break	2.5 / 3.5	%	ISO 527–1/–2
Flexural modulus	18000 / 12500	MPa	ISO 178
Flexural strength	375 / 240	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 95	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	95 / 95	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 24	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	17 / –	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	18 / 29	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)	213 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (parallel)	0.1 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES	**DRY / COND**		
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Water absorption	3.75 / *	%	Sim. to ISO 62
Humidity absorption	1.18 / *	%	Sim. to ISO 62
Density	1700 / –	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	0.05–0.15	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	