

Durethan[®] ECOBKV50H2.0EF

PA6–GF50

50% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow, Recycled Content

Print Date: 2024–08–24

Sustainability

Mass balanced
 Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.19 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	16200 / 10000	MPa	ISO 527–1/–2
Stress at break	215 / 140	MPa	ISO 527–1/–2
Strain at break	2.7 / 3.5	%	ISO 527–1/–2
Flexural modulus	15000 / 9900	MPa	ISO 178
Flexural strength	340 / 230	MPa	ISO 178
Tensile modulus (200°C)	5270	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	100 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	95 / 85	kJ/m ²	ISO 179/1eU
Izod notched impact strength (+23°C)	17 / 20	kJ/m ²	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)	210 / *	°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)	0.12 / *	E–4/°C	ISO 11359–1/–2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	4.7 / 12.9	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4.2 / 4.8	–	IEC 62631-2-1
Dissipation factor (100 Hz)	135 / 2620	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	170 / 774	E-4	IEC 62631-2-1
Volume resistivity	7E12 / 4E9	Ohm*m	IEC 62631-3-1
Electric strength	35 / 34	kV/mm	IEC 60243-1
Comparative tracking index	400 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1570 / –	kg/m³	ISO 1183
<i>PROCESSING RECOMMENDATIONS</i>			
	<i>VALUE</i>		
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	

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