

Durethan[®] ECOBKV60H2.0EF

PA6–GF60

60% 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)	0.32 / *	%	ISO 294–4
Molding shrinkage (normal)	0.4 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	20000 / 12000	MPa	ISO 527–1/–2
Stress at break	225 / 145	MPa	ISO 527–1/–2
Strain at break	2.4 / 3.5	%	ISO 527–1/–2
Flexural modulus	19300 / 12800	MPa	ISO 178
Flexural strength	365 / 235	MPa	ISO 178
Tensile modulus (200°C)	6270	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	90 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	90 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 23	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	16 / 15	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	16 / 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)	213 / *	°C	ISO 75–1/–2

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Property Data

Durethan® ECOBKV60H2.0EF

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Coeff. of linear therm. expansion (normal)	0.75 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	5.3 / 11.2	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4.7 / 5.1	–	IEC 62631-2-1
Dissipation factor (100 Hz)	164 / 2150	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	177 / 651	E-4	IEC 62631-2-1
Volume resistivity	5.8E12 / 8E9	Ohm*m	IEC 62631-3-1
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES			
	DRY / COND		
Water absorption	3.6 / *	%	Sim. to ISO 62
Humidity absorption	1.3 / *	%	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	

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