

Durethan[®] BKV30H2.0EF

PA6–GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

Print Date: 2024–08–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.24 / *	%	ISO 294–4
Molding shrinkage (normal)	0.69 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9400 / 5500	MPa	ISO 527–1/–2
Stress at break	170 / 100	MPa	ISO 527–1/–2
Strain at break	3 / 5.8	%	ISO 527–1/–2
Flexural modulus	8800 / 5000	MPa	ISO 178
Flexural strength	260 / 160	MPa	ISO 178
Tensile modulus (200°C)	2980	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	55 / 55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 15	kJ/m ²	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)	205 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	219 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1 / *	E–4/°C	ISO 11359–1/–2

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Electric strength	33 / 25	kV/mm	IEC 60243-1
Comparative tracking index	400 / -	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m ³	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)	250-290	°C	
Mold temperature	80-120	°C	

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