

Durethan® BKV60PH2.0EF

PA6–GF60

60% 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)	0.35 / *	%	ISO 294–4
Molding shrinkage (normal)	0.55 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	21000 / 12900	MPa	ISO 527–1/–2
Stress at break	240 / 155	MPa	ISO 527–1/–2
Strain at break	2.7 / 4.3	%	ISO 527–1/–2
Flexural modulus	20000 / 13500	MPa	ISO 178
Flexural strength	390 / 255	MPa	ISO 178
Tensile modulus (200°C)	6430	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	95 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	100 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 17	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	15 / 15	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 20	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	215 / *	°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)	0.14 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.68 / *	E–4/°C	ISO 11359–1/–2

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OTHER PROPERTIES			
Water absorption	3.6 / *	%	Sim. to ISO 62
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1700 / –	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS			
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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