Property Data

Envalior
Imagine the Future

Durethan® BKV20H2.0EF DUS001

PA6–GF20

20% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.5 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6700 / 3500	MPa	ISO 527–1/–2
Stress at break	150 / 80	MPa	ISO 527–1/–2
Strain at break	3.5 / 8	%	ISO 527–1/–2
Flexural modulus	6900 / 3600	MPa	ISO 178
Flexural strength	225 / 135	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 85	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	40 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / –	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 15	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)	195 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	DRY / COND		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Density	1270 / –	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature dry air dryer	80	°C
Drying time dry air dryer	2–6	h
Melt temperature (Tmin – Tmax)	260–280	°C
Mold temperature	80–120	°C