Property Data

Envalior
Imagine the Future

Durethan® BKV50H2.0EF DUS030

PA6-GF50

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

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	16000 / 9000	MPa	ISO 527-1/-2
Stress at break	215 / 130	MPa	ISO 527-1/-2
Strain at break	2.5 / 4	%	ISO 527-1/-2
Flexural modulus	15000 / 9500	MPa	ISO 178
Flexural strength	320 / 205	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / -	kJ/m²	ISO 179/1eU
Izod notched impact strength (+23°C)	15 / -	kJ/m²	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)	213 / *	°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)	0.1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES	DRY / COND		
Density	1570 / -	kg/m³	ISO 1183

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PROCESSING RECOMMENDATIONS	**VALUE**		
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	