

Durethan[®] BKV55XF

PA6–GF55

55% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.5 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	17300 / 10500	MPa	ISO 527–1/–2
Stress at break	215 / 140	MPa	ISO 527–1/–2
Strain at break	2.5 / 3.5	%	ISO 527–1/–2
Flexural modulus	16500 / 11000	MPa	ISO 178
Flexural strength	330 / 210	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 20	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 20	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)	208 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	218 / *	°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)	0.9 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES			
	DRY / COND		
Density	1620 / –	kg/m ³	ISO 1183

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Property Data

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PROCESSING RECOMMENDATIONS			
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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