

Durethan[®] BKV115H2.0 DUS008

PA6–I–GF15

15% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.5 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	5900 / 3000	MPa	ISO 527–1/–2
Stress at break	115 / 60	MPa	ISO 527–1/–2
Strain at break	4 / 12	%	ISO 527–1/–2
Flexural modulus	5200 / 2900	MPa	ISO 178
Flexural strength	185 / 100	MPa	ISO 178
Tensile modulus (200°C)	1550	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	65 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	45 / 45	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 / <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)	190 / *	°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 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1230 / –	kg/m³	ISO 1183

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)	260-290	°C	
Mold temperature	80-100	°C	