Property Data

Envalior
Imagine the Future

Durethan® BKV115 DUS008

PA6-I-GF15

15% Glass Reinforced, Injection Molding, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	5600 / 2800	MPa	ISO 527-1/-2
Stress at break	115 / 65	MPa	ISO 527-1/-2
Strain at break	4 / 12	%	ISO 527-1/-2
Flexural modulus	4900 / 2500	MPa	ISO 178
Flexural strength	185 / 95	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50 / -	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
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°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
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
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		
Density	1230 / -	kg/m³	ISO 1183

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
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	