

Durethan® BKV315Z DUS037

PA6—I—GF15

15% Glass Reinforced, Injection Molding, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	1.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	5500 / 2600	MPa	ISO 527-1/-2
Stress at break	105 / 55	MPa	ISO 527-1/-2
Strain at break	5.5 / 14	%	ISO 527-1/-2
Flexural modulus	5000 / 2300	MPa	ISO 178
Flexural strength	165 / 80	MPa	ISO 178
Charpy impact strength (+23°C)	80 / 130	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 40	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)	170 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	209 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
	DRY / COND		
Density	1200 / -	kg/m³	ISO 1183

Property Data

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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	0.00–0.06	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	