

Durethan® BKV215

PA*—GF15

15% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.59 / *	%	ISO 294-4
Molding shrinkage (normal)	0.61 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	4500 / 2400	MPa	ISO 527-1/-2
Stress at break	85 / 55	MPa	ISO 527-1/-2
Strain at break	4.5 / 15	%	ISO 527-1/-2
Flexural modulus	4000 / 2200	MPa	ISO 178
Flexural strength	130 / 80	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 35	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	18 / 30	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	214 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	175 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.5 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Oxygen index	22 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	650 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / -	mm	IEC 60695-2-12

<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Relative permittivity (100Hz)	3.5 / 10	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.2 / 3.7	-	IEC 62631-2-1
Dissipation factor (100 Hz)	60 / 1500	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 800	E-4	IEC 62631-2-1
Volume resistivity	1E11 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	43 / 43	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112

<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m³	ISO 1183

<i>PROCESSING RECOMMENDATIONS</i>	<i>VALUE</i>		
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	

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