

Durethan® BKV20GW1 901317
PA6-GF20

Envalior

Injection Molding, 20% Glass Reinforced, Excellent Surface Properties

ISO 1043 PA6-GF20

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	7600 / 4700	MPa	ISO 527
Stress at Break	150 / 100	MPa	ISO 527
Strain at Break	3 / 7	%	ISO 527
Impact Strength (Charpy), +23°C	45 / 60	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	40 / 40	kJ/m²	ISO 179/1eU
Puncture energy, +23°C	5 / 10	J	ISO 6603-2
Puncture energy, -30°C	4 / -	J	ISO 6603-2

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	193 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	213 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	23 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	89 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4.1 / 9.34	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.74 / 4.27	-	IEC 62631-2-1
Dissipation Factor, 100Hz	80 / 2200	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	180 / 650	E-4	IEC 62631-2-1
Volume Resistivity	>1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 2E13	Ohm	IEC 62631-3-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1280 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 120	°C	-

Characteristics
Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

UV stabilized

Injection Molding

PREPROCESSING

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 270 - 290 °C

Mold temperature: 80 - 120 °C

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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