

Durethan® ECOBKV30FN04
PA6-GF30

Envalior

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10300 / 6700	MPa	ISO 527
Stress at Break	130 / 90	MPa	ISO 527
Strain at Break	3 / 6	%	ISO 527
Impact Strength (Charpy), +23°C	60 / 68	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	55 / 50	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / 13	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10200 / 6600	MPa	ISO 178
Flexural strength	230 / 158	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	10 / 13	kJ/m²	ISO 180/1A

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	219 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0 / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Burning Behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.4 / *	mm	-
Oxygen index	32 / *	%	ISO 4589-1/-2
Glow Wire (GWFI, Flammability Index)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.4	mm	-
Glow Wire (GWFI, Flammability Index)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	0.75	mm	-
Glow Wire Ignition Temperature	775	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.4	mm	-
Glow Wire Ignition Temperature	775	°C	IEC 60695-2-13
GWIT - thickness tested (2)	0.75	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4 / 8	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.6 / 3.9	-	IEC 62631-2-1
Dissipation Factor, 100Hz	145 / 1130	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	155 / 655	E-4	IEC 62631-2-1
Volume Resistivity	>1E13 / 2.1E11	Ohm*m	IEC 62631-3-1
Electric Strength	40 / 37	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	4.6 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1420 / -	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.07	%	-
Melt temperature	250 - 280	°C	-

Mold temperature 70 - 90 °C -

Characteristics

Processing

Injection Molding

Certifications

Recycled Resin Content

Special Characteristics

Flame retardant, Halogen-free, Heat aging stabilized

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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- any critical component in any medical device that supports or sustains human life.

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