

Durethan® AKV325H2.0 901510
PA66-GF25

Envalior

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8200 / 5000	MPa	ISO 527
Stress at Break	150 / 100	MPa	ISO 527
Strain at Break	3.8 / 10	%	ISO 527
Impact Strength (Charpy), +23°C	80 / 90	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	65 / 65	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / 15	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10 / 10	kJ/m²	ISO 179/1eA
Puncture - maximum force, +23°C	862 / -	N	ISO 6603-2
Puncture - maximum force, -30°C	747 / -	N	ISO 6603-2
Puncture energy, +23°C	2.6 / -	J	ISO 6603-2
Puncture energy, -30°C	2.1 / -	J	ISO 6603-2
Flexural Modulus (23°C)	7200 / 4200	MPa	ISO 178
Flexural strength	240 / 140	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	10 / 15	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	10 / 10	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	70 / 70	kJ/m²	ISO 180/1U
Ball Indentation Hardness	190 / 90	MPa	ISO 2039-1

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	236 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	240 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Glow Wire (GWFI, Flammability Index)	600	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4.2 / -	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.8 / -	-	IEC 62631-2-1
Dissipation Factor, 100Hz	100 / -	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	180 / -	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Electric Strength	32 / -	kV/mm	IEC 60243-1
Comparative tracking index	425 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1310 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 120	°C	-

Characteristics

Processing

Other Extrusion, Blow Molding

Chemical Resistance

Hydrolysis

Special Characteristics

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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