Property Data

Envalior
Imagine the Future

Durethan® M25S

Durethan® B30S

PA6

Injection Molding, Medium Viscosity, Lubricated, Nucleated

Print Date: 2026–09–19

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	3000 / 1000	MPa	ISO 527–1/–2
Nominal strain at break	20 / >50	%	ISO 527–1/–2
Yield stress	80 / 40	MPa	ISO 527–1/–2
Yield strain	4 / 20	%	ISO 527–1/–2
Flexural modulus	2900 / 850	MPa	ISO 178
Flexural strength	110 / 35	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 20	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 30	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)	60 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	160 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Oxygen index	26 / *	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	750 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695–2–12

ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4 / 15	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.5 / 4	–	IEC 62631–2–1
Dissipation factor (100 Hz)	170 / 2000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	200 / 1200	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631–3–1
Surface resistivity	* / 1E13	Ohm	IEC 62631–3–2
Electric strength	30 / 30	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1140 / –	kg/m³	ISO 1183
Viscosity number (sulfuric acid, 96%, 5 g/L)	132	ml/g	EN ISO 307
Relative solution viscosity (sulfuric acid, 96%, 10 g/L)	2.5		EN ISO 307

MATERIAL SPECIFIC PROPERTIES	DRY / COND
Shape of granules	spherical or cylindrical

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature dry air dryer	80	°C

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Drying time dry air dryer	2–6	h	
Residual moisture content	0.03–0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260–280	°C	
Mold temperature	80–100	°C	

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