Property Data

Envalior
Imagine the Future

Stanyl® TE341

PA46

Lubricated, Electro–friendly

Print Date: 2026–06–30

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**DRY / COND**		
Molding shrinkage [parallel]	2 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**DRY / COND**		
Tensile modulus	3300 / 1000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	800 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	650	MPa	ISO 527–1/–2
Tensile modulus (180°C)	600	MPa	ISO 527–1/–2
Tensile modulus (200°C)	500	MPa	ISO 527–1/–2
Yield stress	100 / 55	MPa	ISO 527–1/–2
Yield stress (120°C)	50	MPa	ISO 527–1/–2
Yield stress (160°C)	40	MPa	ISO 527–1/–2
Yield stress (180°C)	35	MPa	ISO 527–1/–2
Yield stress (200°C)	30	MPa	ISO 527–1/–2
Nominal strain at break	40 / >50	%	ISO 527–1/–2
Nominal strain at break (120°C)	>50	%	ISO 527–1/–2
Nominal strain at break (160°C)	>50	%	ISO 527–1/–2
Nominal strain at break (180°C)	>50	%	ISO 527–1/–2
Nominal strain at break (200°C)	>50	%	ISO 527–1/–2
Flexural modulus	3000 / 900	MPa	ISO 178
Flexural modulus (120°C)	800	MPa	ISO 178
Flexural modulus (160°C)	600	MPa	ISO 178
Flexural strength	150 / 50	MPa	ISO 178

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Flexural strength (120°C)	50	MPa	ISO 178
Flexural strength (160°C)	40	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 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	4 / 4	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 35	kJ/m²	ISO 180/1A
Izod notched impact strength (–40°C)	4 / 4	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	**DRY / COND**		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	190 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	280 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.75 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	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
UL recognition	Yes / *	–	–
Burning Behav. at 3.0 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
UL recognition	Yes / *	–	–
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Thermal Index 5000 hrs	128	°C	IEC 60216/ISO 527–1/–2
ELECTRICAL PROPERTIES	**DRY / COND**		
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631–3–1
Electric strength	25 / 20	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112

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Relative permittivity (100Hz)	4 / 13	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.6 / 4.3	–	IEC 62631–2–1

OTHER PROPERTIES	DRY / COND		
Humidity absorption	3.7 / *	%	Sim. to ISO 62
Density	1180 / –	kg/m³	ISO 1183

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