

Stanyl® TW241F8

PA46-GF40

40% Glass Reinforced, Heat Stabilized, Lubricated

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	13000 / 8000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	6900 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	6100	MPa	ISO 527-1/-2
Tensile modulus (180°C)	5600	MPa	ISO 527-1/-2
Tensile modulus (200°C)	5200	MPa	ISO 527-1/-2
Stress at break	235 / 140	MPa	ISO 527-1/-2
Stress at break (120°C)	130 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	115	MPa	ISO 527-1/-2
Stress at break (180°C)	105	MPa	ISO 527-1/-2
Stress at break (200°C)	100	MPa	ISO 527-1/-2
Strain at break	3.3 / 6	%	ISO 527-1/-2
Strain at break (120°C)	6/-	%	ISO 527-1/-2
Strain at break (160°C)	7	%	ISO 527-1/-2
Strain at break (180°C)	7	%	ISO 527-1/-2
Strain at break (200°C)	8	%	ISO 527-1/-2
Flexural modulus	11800 / 7000	MPa	ISO 178
Flexural modulus (120°C)	5800	MPa	ISO 178
Flexural modulus (160°C)	5200	MPa	ISO 178
Flexural strength	325 / 220	MPa	ISO 178

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Flexural strength (120°C)	170	MPa	ISO 178
Flexural strength (160°C)	140	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 21	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	14 / 21	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	12 / 12	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)	290 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2
Relative Temperature Index – electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Thermal Index 5000 hrs	177	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	1E12 / 1E8	Ohm*m	IEC 62631-3-1
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	300 / -	V	IEC 60112
Relative permittivity (100Hz)	4.3 / 16	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.7	_	IEC 62631-2-1
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.2 / *	%	Sim. to ISO 62

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Density	1510 / –	kg/m³	ISO 1183

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