PSU 1000



PSU 1000 stock shapes are produced from non-UV-stabilised polysulphone resin.

It offers very good radiation stability, low ionic impurity levels and good chemical and hydrolysis resistance. Compared to PEI 1000, PSU 1000 has a lower property profile and often replaces polycarbonate when higher temperature resistance, improved chemical resistance or autoclavability are required.

Physical properties (indicative values*)

Density Water absorption: - after 24h/96h immersion in water of 23°C (1) - at saturation in air of 23°C / 50% RH - at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile strai	1183 62 62 62	g/cm³ mg % % % % °C °C W/(K·m) m/(m·K) m/(m·K) °C °C %	natural (yellow, translucent 1.24 23/44 0.32/0.61 0.40 0.85 MA 190 0.26 60·10-6 60·10-6 170 180 150 150 27700
Water absorption: - after 24h/96h immersion in water of 23°C (1) - at saturation in air of 23°C / 50% RH - at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Electric dissipation factor tan δ: - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2	62 62 	mg % % % % °C °C W/(K·m) m/(m·K) m/(m·K) °C °C % MPa % MPa % MPa	1.24 23/44 0.32/0.61 0.40 0.85 NA 190 0.26 60·10-6 60·10-6 170 180 150 150 160 170
- after 24h/96h immersion in water of 23°C (1) - at saturation in air of 23°C / 50% RH - at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2	62 -	mg % % % % °C °C W/(K·m) m/(m·K) m/(m·K) °C °C % MPa % MPa % MPa	0.32/0.61 0.40 0.85 NA 190 0.26 60·10-6 60·10-6 170 180 150 150 160 170
- at saturation in air of 23°C / 50% RH - at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - compressive stress at 2% nominal strain (7) - compressive strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Electric dispipation factor tan δ: - at 100 H2 - at 1 MHz Dielectric dispipation factor tan δ: - at 100 H2	62 -	% % % % % % % % % % % % % % % % % % %	0.32/0.61 0.40 0.85 NA 190 0.26 60·10-6 60·10-6 170 180 150 150 160 170
- at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Electric dispipation factor tan δ: - at 100 H2 - at 1 MHz Dielectric dispipation factor tan δ: - at 100 H2		% % % % % % % % % % % % % % % % % % %	0.40 0.85 NA 190 0.28 60·10-6 60·10-6 170 180 150 150
- at saturation in water of 23°C Thermal Properties Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Electric dispipation factor tan δ: - at 100 H2 - at 1 MHz Dielectric dispipation factor tan δ: - at 100 H2		% °C °C W/(K·m) m/(m·K) m/(m·K) °C °C % MPa MPa MPa MPa	0.85 190 0.26 60·10-6 60·10-6 170 180 150 150
Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dispipation factor tan δ: - at 100 H2		°C °C W/(K·m) m/(m·K) m/(m·K) °C °C °C	190 0.26 60·10·6 60·10·6 170 180 150 150
Melting temperature Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Erelative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2		°C W/(K·m) m/(m·K) m/(m·K) °C °C °C MPa MPa MPa	190 0.26 60·10-6 60·10-6 170 180 150 150
Glass transition temperature Thermal conductivity at 23°C Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electrical Properties at 23°C Electrical Strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2		°C W/(K·m) m/(m·K) m/(m·K) °C °C °C MPa MPa MPa	190 0.26 60·10-6 60·10-6 170 180 150 150
Thermal conductivity at 23°C Coefficient of linear thermal expansion:		W/(K⋅m) m/(m⋅K) m/(m⋅K) °C °C % MPa % MPa % MPa	0.26 60 · 10 · 6 60 · 10 · 6 170 180 150 150 16 170
Coefficient of linear thermal expansion: - average value between 23 and 100°C - average value between 23 and 150°C Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile stress at yield (6) - tensile stress at l% nominal strain (7) - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2		m/(m·K) m/(m·K) °C °C °C	60 · 10 · 6 60 · 10 · 6 170 180 150 36 18/HB
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- average value between 23 and 150°C Temperature of deflection under load:		m/(m·k) °C °C °C MPa	170 180 150 150 16/HB
Temperature of deflection under load: - method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2		°C °	170 180 150 150 16/HB
- method A: 1.8 MPa Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "0xygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Flectrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Fr: - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2		°C °C %	180 150 38 WB/HB
Max. allowable service temperature in air: - for short periods (2) - continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 1 MHz Dielectric dissipation factor tan δ: - at 100 Hz		°C °C %	180 150 38 WB/HB
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- continuously: for min. 20,000h (3) Flammability (4): - "Oxygen index" - according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2	527 527 527 527 527	°C % MPa y MPa	150 36 HB/HB
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- according to UL 94 (1.5/3 mm thickness) Mechanical Properties at 23°C Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Dielectric dispripation factor tan δ: - at 100 H2 - at 1 MHz Dielectric dispripation factor tan δ: - at 100 H2	527 527 527 527 527	MPa MPa	80
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Tension test (5): - tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Relative permittivity ε _Γ : - at 100 H2 - at 1 MHz Dielectric dispripation factor tan δ: - at 100 H2	527 527 804	% MPa	10
- tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Dielectric dispripation factor tan δ: - at 100 Hz - at 1 MHz Dielectric dispripation factor tan δ: - at 100 Hz	527 527 804	% MPa	10
- tensile stress at yield (6) - tensile strain at break (6) - tensile modulus of elasticity (7) Compression test (8): - compressive stress at 1% nominal strain (7) - compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Dielectric dissipation factor tan δ: - at 100 H2 - at 1 MH2 Dielectric dissipation factor tan δ: - at 100 H2	527 527 804	% MPa	10
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- compressive stress at 2% nominal strain (7) Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _r : - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ: - at 100 Hz			~ 7
Charpy impact strength - Unnotched (9) Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Surface resistivity Relative permittivity ε _r : - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ: - at 100 Hz		/ MPa	> 20
Charpy impact strength - Notched Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _r : - at 100, H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2	604	/ MRa	39
Ball indentation hardness (10) Rockwell hardness (10) Electrical Properties at 23°C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ε _r : - at 100 H2 - at 1 MHz Dielectric dissipation factor tan δ: - at 100 H2	179/1eU	ký m²	no break
Rockwell hardness (10) Electrical Properties at 23 °C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ϵ_r : - at 100 Hz - at 1 MHz Dielectric dissipation factor $\tan \delta$: - at 100 Hz	179/1¢A 2039-1	kJ/m² N/mm²	4 155
Electrical Properties at 23 °C Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ϵ_r : - at 100 Hz - at 1 MHz Dielectric dissipation factor δ : - at 100 Hz	2039-1	N/)!!!!! ²	M 91
Electric strength (11) Volume resistivity Surface resistivity Relative permittivity ϵ_{r} : - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ : - at 100 Hz	E033-2	\Diamond	111 91
Volume resistivity Surface resistivity Relative permittivity ϵ_{r} : - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ : - at 100 Hz			
Surface resistivity Relative permittivity ϵ_{Γ} : - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ : - at 100 Hz	(60543)	kV/mm	30
Relative permittivity $\epsilon_{\rm f}$: - at 100 Hz - at 1 MHz Dielectric dissipation factor tan δ : - at 100 Hz	(60093)	Ω · cm	> 10 ¹⁴ > 10 ¹³
- at 1 MHz Dielectric dissipation factor tan δ : - at 100 Hz	(60250)	52	3.0
Dielectric dissipation factor tan δ : - at 100 Hz	(60250)		3.0
/ .	(60250)	<u>_</u>	0.001
- at 1 MHz \	(60250)	_	0.003
Comparative tracking index (CTI)	(60112)	_	150
	>		
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Legend

- (1) According to method of 150 62 and done on discs Ø 50
- (2) Only for short time exposure (a few yours) in applications where no or only a very low load is applied to the material.
- Temperature resistance over a period of min 20,000 hours.

 After this period of time, there is a decrease in tensile strength of about 50% as compared with the original value. The temperature value tiven here is thus based on the themal-oxidative degradation which takes place and causes a reduction in properties. Note, however, that the maximum allowable services temperature depends in many cases essentially on the oxidation and the magnitude of the mechanical stresses to which the material is subjected.

These posts estimated ratings, derived from raw material supporer data, are not intended to reflect hazards presented by the materials under actual fire conditions. There is no full yellow eard available for PSU 1000 stock shapes.

- (5) Fest specimens: Type 1 B.
- (6) (fest speed: 5 mm/min. (7) Test speed: 1 mm/min.
- (8) Test specimens: cylinders Ø 12 x 30 mm.
- (9) Pendulum used: 4 J.
- 1107 10 mm thick test specimens.
- (11) 1 mm thick test specimens.
- This table is a valuable help in the choice of a material. The
 data listed here fall within the normal range of product
 properties of dry material. However, they are not
 guaranteed and they should not be used to establish
 material specification limits nor used alone as the basis
 of design.

Availability

Round Rods: Ø 5-150 mm - Plates: Thicknesses 10-50 mm

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