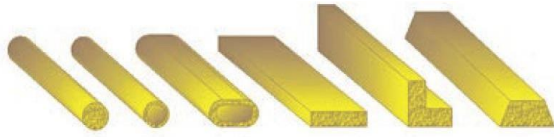


Technical Data Sheet

PULGLASS unidirectional fiberglass profiles and rods



PULGLASS unidirectional fiberglass profiles and rods are manufactured by pulling roving of glass strands preimpregnated with binding agent through a forming bushing.

Typical application: for manufacture of details for transport machine building.

- **Profiles** are intended for electrical machines as coil braces, for fixing transformer and choke coils and for other industrial applications.
- **Rods** are used for manufacturing electroinsulation-purpose details, lengthening variable-resistance axes and other purposes in transport engineering household articles:
 - ✓ **SSO-4** – for lengthening variable-resistance axes and other purposes
 - ✓ **SSO-6, SSO-8, SSO-10** – for curtain holders and other purposes in transport engineering and household articles
 - ✓ **SSO-10-A, SSO-12-A, SSO-15-A, SSO-22-A** – for manufacturing electroinsulating-purpose articles and for other purposes
 - ✓ **SSO-6, SSO-8, SSO-10, SSO-12, SSO-15, SSO-16, SSO-20, SSO-22, SSO-26, SSO-36** – for household usage: for fastening garden plants, manufacturing fences, securing bars when building wooden houses, for fixing suspended shelves for and other purposes.

Physical and mechanical properties of fiberglass rods

Property	Unit	SSO-4	SSO-6	SSO-8	SSO-10	SSO-12	SSO-20
Tensile stress at break, not less than	MPa	-	-	500*	500*	500*	500*
Water absorption at 23±2°C over 24±1 hrs, not more than	%	0.1*	0.1*	0.1*	0.1*	0.1*	0.1*
Impact viscosity across fibers, not less than	kJ/m ²	-	-	230*	230*	250*	250*
Dielectric strength along fibres, not less than	mV/m	1,5					
Nominal diameter	mm	4±0.2	6±0.3	8±0.3	10±0.3	12±0.4	20±0.4
Length	mm	200-3000±5					

* the values are given for information only and are defined as per consumer's requirements

Technical Data Sheet

PULGLASS unidirectional fiberglass profiles and rods

Physical and mechanical properties of fiberglass rods

Property	Unit	SPO-0	SPO 5x10	SPO 5x50	SPO 15x15x5
Density	kg/m ³	1900-2200	-	1900-2150	-
Tensile stress at break across fibres, not less than	MPa (kg/cm ²)	-	-	900 (9000)	-
Water absorption at a temperature of (23±2)°C over the period of (24±1) hrs, not more than	%	-	-	0.2	-
Impact viscosity across fibres, not less than	kJ/m ²	-	-	350	-
Surface resistivity, not less than	Ohm	-	-	1.10 ¹³	-
Resistance to short-duration heating for 5 hrs, not less than	°C	-	-	250	-
Dielectric strength along fibres at 50Hz, not less than	kVeff/mm	-	1.0	-	1.0
Length	mm	1580±2 1595±2 1390±2 1395±2	198±2	205±2 355±2 397±2	198±2
Height	mm	-	5	5	15
Width	mm	-	10	50	15
Wall thickness	mm	4,0 (+1/-0,5)	-	-	5
Weight of a linear meter	kg	0.54±0.10	0.095±0.005	0.475±0.1	0.238±0.05

Manufacture of the material with other physical and mechanical properties is accepted upon agreeing about with a consumer.

Advantages: operating temperature ranges from -60°C to +155°C.. Profiles, rods, pipes are non-toxic, explosion-proof, no harmful environmental impact under operating conditions.

Reference documents:

- TY 22.29.29-046-00205009-2019 (profiles)

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