

Technical Data Sheet

PULGLASS unidirectional cylindrical fiberglass rods

Polymer insulators, load-bearing structures



PULGLASS unidirectional fiberglass rods are made by continuous pulling of glass-strands roving through a forming bushing.

Typical application: unidirectional fiberglass rods are used in polymer insulators and as load-bearing structural components of signaling fences.

Physical and mechanical properties

Property	Unit	SSCO -6 AE	SSCO -8 AE	SSCO -10 AE	SSCO -12 AE	SSCO -15 AE	SSCO -16 AE	SSCO -20 AE	SSCO -22 AE	SSCO -26 AE	SSCO -36 AE	SSCO -46 AE	SSCO -80 AE
Nominal diameter	mm	6 ^{+0.3} _{-0.3}	8 ^{+0.3} _{-0.3}	10 ^{+0.2} _{-0.2}	12 ^{+0.2} _{-0.2}	15 ^{+0.4} _{-0.1}	16 ^{+0.2} _{-0.1}	20 ^{+0.4} _{-0.1}	22 ^{+0.5} _{-0.1}	26 ^{+0.3} _{-0.3}	36 ^{+0.5} _{-0.1}	46 ^{+0.2} _{-0.5}	80 ^{+0.2} _{-0.5}
Weight of a linear meter, kg		0.062	0.108	0.150	0.220	0.385	0.410	0.630	0.750	1.200	2.030	3.500	10.75
Density	kg/m ³	1800-2150											
Tensile stress at break	MPa	≥800										≥700	
Dielectric strength along fibres at 50Hz under room conditions	kVeff/mm	≥4				≥4.5				≥4.0			
Water absorption capacity within 24 hrs ≤0.03% Impact viscosity across fibers ≥265 kJ/m ² Ultimate flexural strength across fibers ≥700 MPa Resistance to short-duration heating for 30 min ≥160°C Surface resistivity ≥1.10 ¹² Ohm													

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

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Advantages: the rods are intended for long-time service at an ambient air temperature ranging from -60°C to $+80^{\circ}\text{C}$ with admissible short-duration heating up to $+160^{\circ}\text{C}$ under conditions of normal and high humidity.

Regulatory documents:

- Technical specification TU 6-48-00204961-35-96



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