

UPM S2 fiberglass laminate

BEVI

UPM S2 is a fiberglass laminate consisting of polyester resin reinforced with fiberglass mat base or woven glass fabric for applications up to 155°C. Very good mechanical properties render the material ideal for applications where extreme mechanical stress occurs.

UPM S2 is a good choice when the mechanical properties for GPO-3 are insufficient.

Compliant with DIN 7735 – HM 2472, EN60893/IEC893 – UPGM 205.



Typical applications

UPM S2 is suitable for a broad range of applications within the electrical and mechanical sectors and used extensively in the manufacture of spacers, mechanical barriers, electrical insulation components/spacers, etc., where the material is subjected to extreme mechanical stress. Generators and electric motors are typical application areas.

Properties

- Very good mechanical properties
- Low moisture absorption
- Very high CTI value (Comparative Tracking Index)
- High heat resistance 155°C without major impact on the mechanical properties
- Classified flame resistant
- High chemical resistance
- Resistant against most impregnation varnishes
- Good dielectric properties
- Highly suitable for processed parts
- Good thermal properties
- Good electrical properties

Composition

Fiberglass mat base or woven glass fabric compressed and cured under high pressure and temperature to comply with defined industry standards.

Colour

Usually yellow/white, but can occur in red and white.

Dimensions

- Standard size sheets 1120 x 2340 mm
- Thickness range 55–5050 mm

We deliver machined UPM S2 according to specification on request

Packaging

Sold individually.

Technical data

Fiberglass polyester UPM S2 complies with norms: DIN 7735
- HM 2472, EN60893/IEC893 - UPGM 205.

Properties	Value	Unit
Mechanical		
Density	1.9	g/cm ³
Flexural strength perpendicular	350	N/mm ²
Flexural modulus of elasticity	20 000	N/mm ²
Compressive strength perpendicular	480	N/mm ²
Tensile strength	200	N/mm ²
Impact strength parallel with laminations	150	kJ/m ²
Water absorption	<0.5	%
Thermal		
Temperature endurance (Temperature index)	155	T.I
Working temperature class F	155	°C
Flame resistance	VO/>5mm	UL 94
Electrical		
Dielectric strength at 90°C in oil perpendicular	12	kV/mm
Dielectric strength at 90°C in oil parallel	75	kV / 25 mm
Creep voltage strength	600	CTI

How to contact BEVI

Contact details for all countries are continually updated on our website.
Please visit www.bevi.com to access the information direct.

BEVI AB (Headquarters)
Blomstermåla, Sweden
Tel. +46 499 271 00
info@bevi.se

