

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.

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