

Technical Data Sheet

Durostone[®] UPM S2 white

GFK-UP

Typical characteristics

- Matriz de resina de éster de vinilo (VE) especial reforzada con una combinación de tela y tapete de vidrio electrónico
- Laminado de alta presión SMC
- Alta resistencia mecánica
- Extremadamente alta resistencia mecánica y dieléctrica y baja inflamabilidad.

Typical industries

- Sector eléctrico
- Generadores y motores
- Transmisión de corriente continua de alta tensión (HVDC)
- Construcción de máquinas e instalaciones
- Energía eólica
- Balística

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,95
Flexural strength ^{1) ⊥}	ISO 178	MPa	350
Flexural strength ^{1) ⊥} +130°C	ISO 178	MPa	175
Modulus of elasticity in flexion ^{1) ⊥}	ISO 178	MPa	18000
Modulus of elasticity in flexion ^{1) ⊥} +130°C	ISO 178	MPa	12000
Compressive strength [⊥]	ISO 604	MPa	480
Tensile strength II	ISO 527	MPa	220
Impact strength II (Charpy)	ISO 179	kJ / m ²	200
Thermal properties			
Flammability	UL 94	/	V0 / 5mm
Smoke density & toxicity, class	NF F 16-101	/	F0
Fire test, class	NF P 92-501	/	M2
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	< 0,5

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	Test method	Unit	Guideline value
Dielectrical properties			
Electric strength 90°C under oil \perp	IEC 60243	kV / mm	12
Electric strength 90°C under oil II	IEC 60243	kV/25mm	75
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	4
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	0,01
Specific surface resistance	IEC 60093	Ω	10^{10}
Comparative tracking index	IEC 60112	CTI	600

\perp = perpendicular to the lamination II = parallel to the lamination

1) Sample size 80 x 10 x 4 mm, support distance 64 mm, tension zone unmachined

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