

Technical Data Sheet

Durostone[®] UPM S13 LST

GFK-UP

Typical characteristics

- Laminado de alta presión SMC
- Matriz especial de resina de poliéster (UP) reforzada con una estera de vidrio electrónico
- Alta resistencia mecánica
- Extremadamente alta resistencia mecánica y dieléctrica y baja inflamabilidad.
- Retardante de llama

Typical industries

- Tecnología ferroviaria y vehículos ferroviarios

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	2,1
Flexural strength [⊥]	ISO 178	MPa	160
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	12000
Compressive strength [⊥]	ISO 604	MPa	280
Compressive strength II	ISO 604	MPa	180
Tensile strength II	ISO 527	MPa	80
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Shear strength [⊥]	BS 2782/340B	MPa	85
Shear strength II	BS 2782/340B	MPa	80
Delamination force II	DIN 53463	N	2000
Thermal properties			
Flammability	UL 94	/	V0 / 1mm
Flammability req. R1	DIN EN 45545-2		HL3
Flammability req. R7	DIN EN 45545-2		HL3
Flammability req. R17	DIN EN 45545-2		HL3
Physical properties			

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	Test method	Unit	Guideline value
Water absorption (method I)	ISO 62	%	0,1
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	13
Electric strength 90°C under oil II	IEC 60243	kV/25mm	75
Specific surface resistance	IEC 60093	Ω	10 ¹⁴
Specific volume resistance	IEC 60093	Ω x cm	10 ¹³
Comparative tracking index (test solution B)	IEC 60112	CTI	600 M

[⊥] = perpendicular to the lamination II = parallel to the lamination

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Print: 09/05/2026 • Release: 04/02/2025 • Version: 3.0
 PIM-ID: 716629 • PIM-Code: 712-60-10.10.23.19.16-11-13
 Company-IDs: 20000-1

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