

GM13 SST TECHNICAL SPECIFICATIONS

PROPERTIES		TEST METHODS	GEO 0.75	GEO 0.80	GEO 1.00	GEO 1.50	GEO 2.00	GEO 2.50	GEO 3.00
AVERAGE THICKNESS (mm)	UNE - EN 1849-2		≥ 0.713	≥ 0.76	≥ 0.95	≥ 1.43	≥ 1.90	≥ 2.38	≥ 2.85
MINIMUM THICKNESS OF 10 READS (mm)	UNE - EN 1849-2		≥ 0.638	≥ 0.68	≥ 0.85	≥ 1.28	≥ 1.70	≥ 2.13	≥ 2.55
AVERAGE ROUGHNESS HEIGHT (mm)	ASTM D 7466		≥ 0.40	≥ 0.40	≥ 0.40	≥ 0.40	≥ 0.40	≥ 0.40	≥ 0.40
DENSITY (g/cm ³)	UNE - EN ISO 1183		≥ 0,940	≥ 0,940	≥ 0,940	≥ 0,940	≥ 0,940	≥ 0,940	≥ 0,940
FLUIDITY INDEX (190 °C, 5 kg)	UNE - EN ISO 1133		≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
TENSILE STRENGTH (N/mm)	UNE - EN ISO 527-3, test tube 5		≥ 8	≥ 9	≥ 10	≥ 16	≥ 21	≥ 26	≥ 32
YIELD STRENGTH (N/mm)	UNE - EN ISO 527-3, test tube 5		≥ 11	≥ 12	≥ 15	≥ 22	≥ 29	≥ 37	≥ 44
ELONGATION AT BREAK (%)	UNE-EN ISO 527-3, test tube 5		≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
YIELD POINT ELONGATION (%)	UNE - EN ISO 527-3, test tube 5		≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12
TEAR RESISTANCE (N)	ISO 34-1B (a)		≥ 93	≥ 100	≥ 125	≥ 187	≥ 249	≥ 311	≥ 374
PUNCTURE RESISTANCE (N)	EN - ISO 12236		≥ 200	≥ 214	≥ 267	≥ 400	≥ 534	≥ 667	≥ 800
BENDING AT LOW TEMPERATURES (77 °C)	UNE - EN 495-5		No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks
COEFFICIENT OF LINEAR EXPANSION (°C ⁻¹)	ASTM D 696		2*10-4	2*10-4	2*10-4	2*10-4	2*10-4	2*10-4	2*10-4
HEAT TRANSFER BEHAVIOR (100 °C)	UNE - EN 14632		≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
BREAK STRENGTH (h)	UNE - EN 14576		≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
CARBON BLACK CONTENT (%)	ISO 6964		2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3
CARBON DISPERSION (CATEGORY)	ISO 18553		1 - 2	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2
STANDARD OXIDATIVE INDUCTION TIME (OIT) (min)	UNE - EN 728		≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
OVEN AGING AT 85°C (MINIMUM RETAINED % OF STANDARD OIT AFTER 90 DAYS)	Pr EN 14575 UNE - EN 728		≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
OVER AGING AT 85°C (MINIMUM % VARIATION OF ELONGATION AT BREAK AFTER 90 DAYS)	Pr EN 14575 UNE - EN ISO 527-3, test tube 5		≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
UV RESISTANCE (MINIMUM OIT % RETAINED AT HIGH PRESSURE AFTER 1600 HOURS)	EN 12224 UNE - EN 728		≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50
UV RESISTANCE (MINIMUM % CHANGE IN ELONGATION AT BREAK AFTER 1600 HOURS)	EN 12224 UNE - EN ISO 527-3, test tube 5		≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
WATER ABSORPTION AT 24 HOURS (%)	UNE - EN ISO 62		≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2
WATER ABSORPTION AT 6 DAYS (%)	UNE - EN ISO 62		≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
RESISTANCE TO ROOT PERFORATIONS	Pr CEN/TS 14416		No perforations	No perforations	No perforations	No perforations	No perforations	No perforations	No perforations
GAS-TIGHTNESS (m ³ /m ² /d*atm)	ASTM D 1434		≤ 2*10-3	≤ 2*10-3	≤ 2*10-3	≤ 2*10-3	≤ 2*10-3	≤ 2*10-3	≤ 2*10-3
HYDRAULIC PERMEABILITY (m ³ /m ² /day)	UNE - EN 14150		≤ 2*10-6	≤ 2*10-6	≤ 2*10-6	≤ 2*10-6	≤ 2*10-6	≤ 2*10-6	≤ 2*10-6
ROLL LENGTH (m)	N/A		400	350	310	210	155	120	100
1/2 ROLL LENGTH (m)	N/A		200	175	155	105	77.5	60	50
1/4 ROLL LENGTH (m)	N/A		100	87.5	77.5	52.5	38.75	30	25
WIDTH (m)	N/A		7	7	7	7	7	7	7
AREA (m ²)	N/A		2800	2450	2170	1470	1085	840	700

→ THE WIDTH (M) COMES IN THE FOLLOWING PRESENTATIONS: 7M, 7.5M AND 8M.

→ THE AREA (M²) IS CALCULATED BY MULTIPLYING THE WIDTH OF THE ROLL BY THE LENGTH OF THE ROLL (M)