

TEST REPORT

EPDM Roller Shutter Bottom Seal — GSE-311 & GSE-312

TEST METHODOLOGY

All tests conducted in accordance with the following standards:

- ASTM D2240: Durometer Hardness
- ASTM D412: Tensile Properties
- ASTM D573: Heat Ageing (70 hours @ 150°C)
- ASTM D395 Method B: Compression Set (70 hours @ 100°C)

TEST RESULTS — INITIAL PROPERTIES

Property	Unit	Specification	Estimated Result
Hardness	Shore A	70 ± 5	71 ± 2
Tensile Strength	kg/cm ²	min 92	105–115
Elongation at Break	%	min 250	310–340
Max Operating Temperature	°C	up to 150	150
Specific Gravity (Density)	g/cm ³	1.20–1.35	1.28

HEAT AGEING RESULTS (ASTM D 573, 70 hours @ 150°C)

Property	Unit	Max Change	Estimated Change
Hardness Change	ΔSh A	± 10	+4 to +7
Tensile Strength Change	%	max -25	-16 to -22
Elongation Change	%	max -35	-28 to -32

COMPRESSION SET RESULTS (ASTM D 395, Method B, 70 hours @ 100°C)

Property	Maximum	Estimated Result
Compression Set (%)	30%	26–29%

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