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Textured HDPE Geomembrane

Technical specification | Rough-surface and embossed supply options

Catalog reference values for preliminary selection, transcribed from the supplied GH-2T1 / GH-2T2 schedule. These are requirements, not measured batch results or a certification.

SUPPLY OPTIONS

Surface construction	Thickness	Roll width	Roll length
Single- or double-sided rough texture	1.0-3.0 mm	1-8 m	50-100 m
Embossed / studded HDPE geomembrane	0.8-3.0 mm	1-8 m	50-100 m

Custom roll sizes can be reviewed. The technical schedule also lists 0.75 mm and 1.25 mm; availability and surface construction must be confirmed.

ROUGH-SURFACE REFERENCE: GH-2T1 / GH-2T2

Thickness (mm)	Tensile at yield (N/mm)	Tensile at break (N/mm)	Right-angle tear (N)	Puncture (N)
0.75	≥11	≥8	≥93	≥200
1.0	≥15	≥10	≥125	≥270
1.25	≥18	≥13	≥160	≥335
1.5	≥22	≥16	≥190	≥400
2.0	≥29	≥21	≥250	≥535
2.5	≥37	≥26	≥315	≥670
3.0	≥44	≥32	≥375	≥800

Yield, break and tear values apply in both machine and transverse directions (MD/TD). Values and units are reproduced from the supplied schedule.

Surface selection

Single-sided texture provides one rough interface; double-sided texture provides rough surfaces on both faces. Embossed studded liner has a regularly patterned surface. Select the orientation to match the adjoining layers and the slope design.

The thickness-based schedule applies to the listed rough-surface reference. The supplied embossed-product description has no separate performance table; confirm its grade-specific values before ordering.

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Common Technical Requirements

Requirements shared by the listed rough-surface grades

Property	Requirement
Density	≥0.940 g/cm³
Asperity height	≥0.25 mm
Elongation at yield (MD/TD)	≥12%
Elongation at break (MD/TD)	≥100%
Stress crack resistance	≥300 h
Carbon black content	2.0-3.0%
Carbon black dispersion	No more than 1 of 10 results may be Grade 3; Grades 4 and 5 are not permitted.
Standard oxidation induction time (OIT)	≥100 min
High-pressure oxidation induction time (OIT)	≥400 min
85°C heat-aging indicator	≥55%
UV-resistance indicator	≥50%
Thickness limit deviation	-10%

STANDARD EDITION AND TEST DOCUMENTATION

The supplied schedule cites GB/T 17643-2011. GB/T 17643-2025 replaced that edition on 1 November 2025. Confirm the governing edition and matching test documents for your project; these catalog values are not a declaration of compliance with the 2025 edition.

The schedule does not specify test methods, aging duration, UV exposure duration or the retained property for its percentage indicators. Confirm these conditions, thickness tolerance and acceptance criteria in the order specification.

QUOTATION CHECKLIST

Send the application, quantity in m², destination country and port, nominal thickness, single- or double-sided surface, rough or embossed construction, roll dimensions and project standard. For slopes, provide geometry, adjacent materials and any interface shear test requirements.