

Technical Data

polyfelt.Rock GX



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polyfelt[®]
Geosynthetics

polyfelt.Rock GX are geogrids made from high tenacity PET yarns which are covered with a black polymeric coating, providing high tensile strength at low elongation.

Properties <i>[Standard]</i>	Unit		GX	GX	GX	GX	GX	GX	GX	GX	GX	GX
			20/20F	35/35F	55/30F	80/30F	55/55F	80/80F	110/30F	160/30F	200/30F	400/30F
Tensile strength <i>[EN ISO 10319]</i>	MD min	kN/m	21	37	58	84	58	84	116	168	210	420
		kN/m	20	35	55	80	55	80	110	160	200	400
	CD min	kN/m	21	37	31,5	31,5	58	84	31,5	31,5	31,5	31,5
		kN/m	20	35	30	30	55	80	30	30	30	30
Elongation <i>[EN ISO 10319]</i>	MD	%	12	12	12	12	12	12	12	12	12	12
		CD	%	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5
Typical long term tensile strength *) 120 ys, sandy gravel, pH = 4-9		kN/m	10,2	17,8	32,0	46,6	32,0	46,6	64,1	93,2	116,5	233,0
Mesh size (±5 mm)	MD	mm	25	25	25	25	25	25	25	25	25	25
		CD	mm	35	35	35	35	35	35	35	35	35

The values given are indicative and correspond to average results obtained in our laboratories and in testing institutes.
Minimum values are indicated according to the 95% confidence level. The right is reserved to make changes without notice.

Forms of supply

Length	100 x 5,10	m x m	✓	✓	✓	✓	✓	✓	-	-	-	-
x width	50 x 5,10	m x m	-	✓	✓	-	✓	-	✓	✓	✓	✓
	50 x 2,50	m x m	-	✓	✓	-	-	-	-	-	-	-

Other forms of supply and special grades, adjusted to the requirements of the project, are available on request.

*) Long term tensile strength = $T_{min} / (RF_{creep} \times RF_{inst} \times RF_{mat} \times RF_{env})$
 RF_{creep} : creep - 120 years = 1,46
 RF_{inst} : installation damage - sandy gravel ($d_{50} = 5$ mm)
 GX 20/20F & 35/35F = 1,20
 all other grades = 1,05
 RF_{mat} : material = 1,00
 RF_{env} : environment pH = 4 - 9 = 1,12
 National codes may require application of other reduction factors or test methods.

For an easier identification, the products are marked at their boundary with these colours.

Polyfelt Ges.m.b.H.
Schachermayerstr. 18, A-4021 Linz, Austria
Tel. +43 732 6983 0, Fax +43 732 6983 5353
service@polyfelt.com, www.polyfelt.com

Sales Organisations:
Germany Tel. +49 6074 3751 50 Fax +49 6074 3751 90
Switzerland Tel. +41 1 318 6590 Fax +41 1 318 6597
Italy/Greece/Turkey Tel. +39 02 9672 9017 Fax +39 02 9672 9099
LAM/Spain/Port. Tel. +34 91 650 6461 Fax +34 91 650 9828
UK/Ireland Tel. +44 1952 588 066 Fax +44 1952 588 466
Near Middle East Tel. +44 2920 562 566 Fax +44 2920 554 636
Russia/CIS Tel. +7 095 737 5573 Fax +7 095 737 5574
Scandinavia/Baltics Tel. +45 4485 7474 Fax +45 4485 7470
Poland Tel. +48 12 268 8375 Fax +48 12 263 7758
Czech Republic Tel. +420 2 2425 1843 Fax +420 2 2425 1844

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The Polyfelt Quality Management System is certified acc. ISO 9001.
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