

Technical Data

polyfelt.DN|DC

500 419 | 01.2004



polyfelt.DN are extruded geonets, and **polyfelt.DC** are geocomposites comprising a geonet and a filter geotextile (polyfelt.TS) on one or on both sides. Both products have a **very low compressibility**, resulting in high discharge capacity even under high surcharge load.

Properties <i>[Standard]</i>	Unit	DN 400E	DN 500E	DN 600E	DC 401E	DC 501E	DC 601E	DC 402E	DC 502E	DC 602E	
Drainage mat											
Type of product	-	Drainage Geonet			Geocomposite = Geonet + Filter geotextile on one side on both sides						
Raw material	-	HDPE			HDPE (Geonet) + PP UV-stabilized (Filter)						
Water flow rate q (Transmissivity) machine dir.											
i = 1	20 kPa 100 kPa 200 kPa	l/ms	2.00 1.70 1.50	2.20 1.80 1.60	2.50 2.20 2.00	1.10 1.00 0.85	1.30 1.10 1.00	1.60 1.30 1.10	0.45 0.35 0.30	0.50 0.40 0.35	0.85 0.65 0.50
i = 0.1	20 kPa 100 kPa 200 kPa	l/ms	0.45 0.40 0.35	0.50 0.45 0.40	0.65 0.60 0.55	0.25 0.20 0.15	0.30 0.25 0.20	0.40 0.35 0.30	0.09 0.07 0.06	0.12 0.09 0.07	0.20 0.15 0.10
<i>[EN ISO 12958 - hard/hard]</i>											
Thickness	2 kPa	mm	4.0	5.0	6.0	5.4	5.7	6.6	5.8	6.1	7.3
<i>[EN 964-1]</i>											
Tensile strength	MD	kN/m	7.0	8.0	9.0	12.0	12.0	12.0	16.0	16.0	16.0
<i>[EN ISO 10319]</i>											
	CD	kN/m	3.0	3.0	3.0	12.0	12.0	12.0	22.0	22.0	22.0
CBR puncture resistance		N	450	500	600	1900	2000	2100	3300	3400	3500
<i>[EN ISO 12236]</i>											
Compressive resistance at 10% compression		kPa	-	-	-	250	350	450	180	250	350
at 40% compression		kPa	-	-	-	>1000	>1000	>1000	>1000	>1000	>1000
<i>[EN 826]</i>											

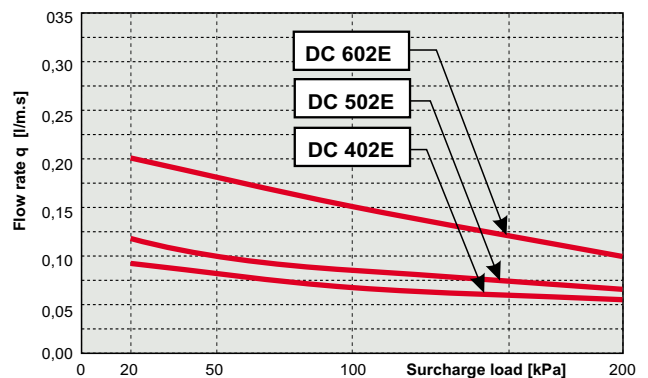
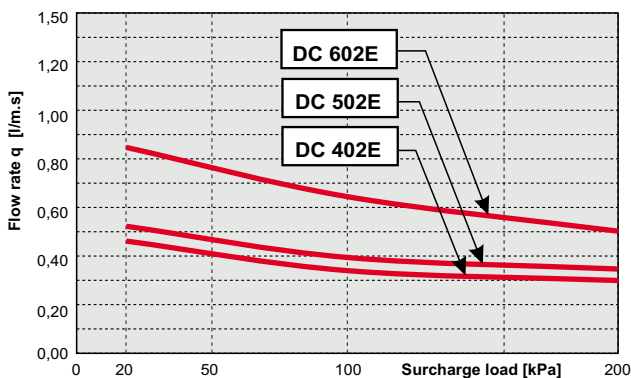
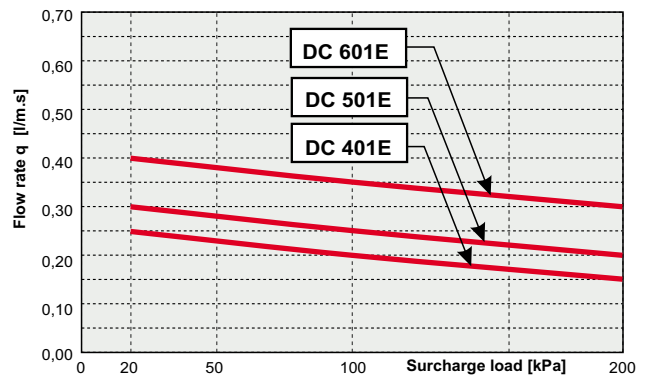
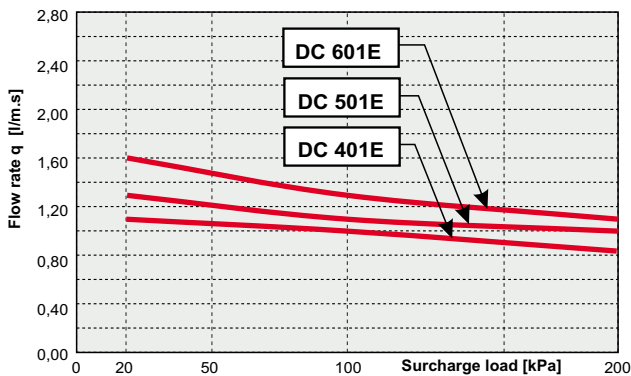
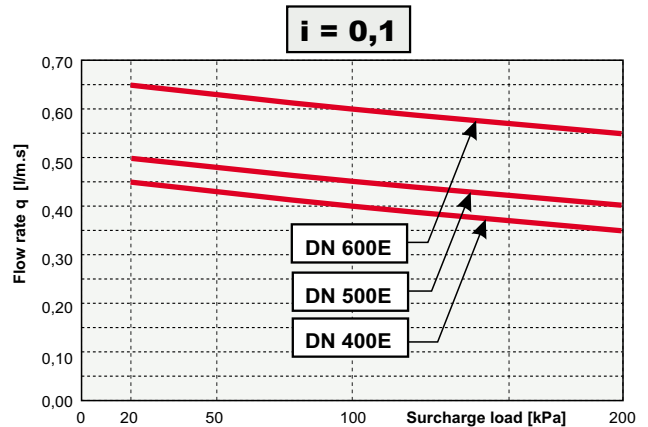
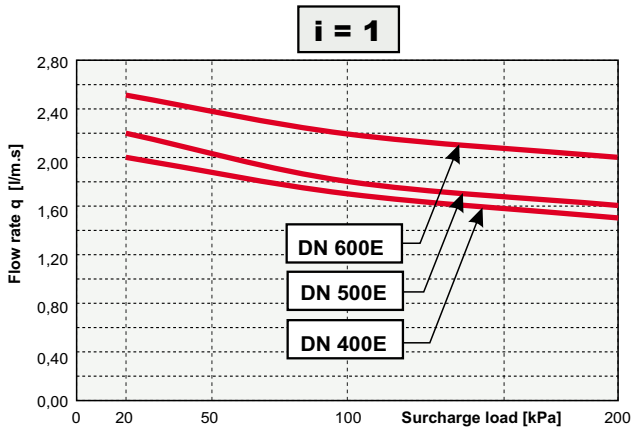
Filter geotextile										
Type of product	-	-	mechanically bonded continuous filament nonwoven							
Water flow rate vertical		l/m ² .s	-	130				130		
<i>[EN ISO 11058]</i>										
Opening size O ₉₀		µm	-	110				110		
<i>[EN ISO 12956]</i>										
CBR puncture resistance		N	-	1500				1500		
<i>[EN ISO 12236]</i>										
Tensile strength		kN/m	-	9.5				9.5		
<i>[EN ISO 10319]</i>										
UV resistance		%	-	> 60				> 60		
<i>[EN 12224 - residual strength]</i>										

The values given are average values obtained in our laboratories and in testing institutes.
The right is reserved to make changes without notice at any time.

polyfelt.DN rolls are marked with these colours for identification purposes!

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In-plane flow rate, Forms of supply



Forms of supply

	Unit	DN 400E	DN 500E	DN 600E	DC 401E	DC 501E	DC 601E	DC 402E	DC 502E	DC 602E
Width	m	2,0	2,0	2,0	2,0*	2,0*	2,0*	2,0*	2,0*	2,0*
Length	m	25	25	25	25	25	25	25	25	25
Roll weight	kg	25	33	37	32	40	44	39	46	51

Other forms of supply are available on request.
polyfelt.DN rolls are marked with these colours for identification purposes!

*) The filter geotextile projects by 10 cm on one side each over the edge of the geonet.

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:

Malaysia	Tel. +60 3 512 8568	Fax +60 3 512 8575
Singapore	Tel. +65 6266 0188	Fax +65 6266 0182
Thailand	Tel. +66 2 692 6680	Fax +66 2 692 6679
Philippines	Tel. +632 633 4719	Fax +632 637 3603
China	Tel. +86 10 6599 5221	Fax +86 10 6599 5200
India	Tel. +91 11 5168 0888	Fax +91 11 5168 0889
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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