

# TEXEL®

## HDPE REINFORCED GEOMEMBRANE

### Texel Industries Limited

Block No. 2106, Santej-Khatraj Road,  
Near Shah Alloys Ltd.

Village : Santej, Tal. : Kalol, (N.G.)- 382 721.

Dist. : Gandhinagar, Gujarat, India.

CIN : L29100GJ1989PLC012576

Phone : +91 89800 26110, +91 89800 26220

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## TECHNICAL DATA SHEET

Sr. No.	Typical Property	Unit	Test Method Reference	Type - I				Type - II	
				Required Value	Product Code			Required Value	Product Code
					CLF-30	CLF-40	CLF-49		CLF-50
					Obtained Value				Obtained Value
Type-I	Type-I	Type-I	Type-I	Type-II	Type-II				
1	Type	---	--	Type-I	Type-I	Type-I	Type-I	Type-II	Type-II
2	No of layers	---	IS:15351: 2015	7 Layers	7 layers	7 layers	7 layers	7 Layers	7 Layers
3	Dimensions (Length and width)	—	Annex A of IS:11652	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size
4	Thickness, min	mm	IS:7016 (Part-1)	0.25	0.30	0.40	0.49	0.50	0.50
5	Mass, min	G/m <sup>2</sup>	IS:7016 (part-1)	250	300	350	380	420	420
6	Carbon black contents	%	IS:2530:1963	2.5 ± 0.5	2.5	2.5	2.5	2.5 ± 0.5	2.5
7	Breaking load on 20 x 10cm Strip, before UV exposure, min. for warp & weft	N	IS:13162:1992 (part - 5)	3300	5000	6000	7000	6600	7500
				3000	4500	5500	6500	6000	7000
8	Strain at maximum load	%	IS:13162:1992 (part-5)	20 ± 5	20 ± 5	20 ± 5	20 ± 5	20 ± 5	20 ± 5
9	Breaking load on 20 x 10cm Strip, after UV exposure of 1000 hour(xenon ARC) for warp & weft	N	Annex- B of IS:15351: 2015 and IS:13162(part-5)	Min. 80 % value as in Sr.no.7,	4500 (90%)	5500 (91%)	6500 (92%)	Min. 80 % value as in Sr.no.7,	7000 (93%)
				2640 (80%) 2400 (80%)	4000 (89%)	5000 (90%)	6000 (92%)	5280 (80%) 4800 (80%)	6500 (92%)
10	Impact failure load, at 1524 mm drop, min. gram force at 50 % failure.	Gf	Annex C of IS:15351: 2015	1150	1500	1700	1900	1840	2000
11	Tear resistance, min.	N	Method A1 of IS-7016 (part-3)	100	185	215	265	250	285
12	Puncture resistance, min.	N	Annex D of IS:15351: 2015	300	350	450	525	500	550
13	Bursting strength (Ball burst), min.	N/cm <sup>2</sup>	IS:7016:1984 (part 6)	60	90	100	120	110	130
14	Seam strength before UV exposure, min.	N/mm	IS:15060:2001	15	20	25	32	30	35
15	Seam strength after UV exposure min.	N/mm	Annex - B of IS:15351: 2015 and IS:15060:2001	Min. 80 % value as in Sr.no.14, 12 (80%)	18 (90%)	22 (88%)	29 (90%)	Min. 80 % value as in Sr.no.14, 24 (80%)	32 (91%)
16	Hydrostatic resistance, min. (Test specimen with joint) before UV exposure.	Kg/cm <sup>2</sup>	Annex-E of IS:15351: 2015	No through leakage at 10 kg/ cm <sup>2</sup>	18	22	26	No through leakage at 15 kg/ cm <sup>2</sup>	28
17	Hydrostatic resistance (Test specimen with joint) after UV exposure. for 1000 hours	Kg/cm <sup>2</sup>	Annex -B and Annex-E of IS:15351: 2015	Min. 80 % value as in Sr.no.16, 8 (80%)	15 (83%)	19 (86%)	23 (88%)	Min. 80 % value as in Sr.no.16, 12 (80%)	26 (92%)
18	Ash content, max	%	Annex- F of IS:15351: 2015	1.00	≤ 1.00	≤ 1.00	≤ 1.00	1.00	≤ 1.00

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## TECHNICAL DATA SHEET

Sr. No.	Typical Property	Unit	Test Method Reference	Type –III		Type –IV			
				Required Value	Product Code	Required Value	Product Code		
					CLF-75		CLF-100	CLF-130	CLF-150
				Obtained Value	Obtained Value				
1	Type	---	--	Type-III	Type-III	Type-IV	Type-IV	Type-IV	Type-IV
2	No of layers	---	IS:15351: 2015	7 Layers	7 layers	9 Layers	9 Layers	11 Layers	13 Layers
3	Dimensions (Length and width)	—	Annex A of IS:11652	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size	As declared +1 % with no negative size
4	Thickness, min	mm	IS:7016 (part-1)	0.75	0.75	1.00	1.00	1.35	1.50
5	Mass, min	G/m <sup>2</sup>	IS:7016(part-1)	650	650	950	950	1050	1200
6	Carbon black contents	%	IS:2530:1963	2.5 ± 0.5	2.5	2.5 ± 0.5	2.5	2.5	2.5
7	Breaking load on 20 x 10 cm Strip, before UV exposure, min. for Warp & Weft	N	IS:13162:1992 (part-5)	8200	10000	10700	15000	18000	20000
				7400	9500	9700	14500	16500	18500
8	Strain at maximum load	%	IS:13162:1992 (part-5)	20 ± 5	20 ± 5	20 ± 5	20 ± 5	20 ± 5	20 ± 5
9	Breaking load on 20 x 10 cm Strip, after UV exposure of 1000 hour(xenon ARC) for warp & weft	N	Annex - B of IS:15351: 2015 and IS:13162 (part-5)	Min. 80 % value as in Sr.no.7,	9000 (90%)	Min. 80 % value as in Sr.no.7,	13000 (86%)	16000 (88%)	18000 (90%)
				6560 (80%) 5920 (80%)	8500 (89%)	8560 (80%) 7760 (80%)	12500 (86%)	14500 (87%)	16500 (89%)
10	Impact failure load, at 1524 mm drop, min. gram force at 50 % failure.	Gf	Annex - C of IS:15351: 2015	2875	3500	4025	4500	5000	5500
11	Tear resistance, min	N	Method A1 of IS - 7016 (part-3)	300	325	350	375	400	425
12	Puncture resistance, min.	N	Annex D of IS:15351: 2015	725	900	900	1000	1100	1200
13	Bursting strength (Ball Burst), min.	N/cm <sup>2</sup>	IS:7016:1984 (part - 6)	135	250	200	320	350	380
14	Seam strength before UV exposure, min.	N/mm	IS:15060:2001	40	45	42	60	70	80
15	Seam strength after UV exposure min.	N/mm	Annex –B of IS:15351: 2015 and IS:15060: 2001	Min. 80 % value as in Sr.no.14, 32 (80%)	40 (88%)	Min. 80 % value as in Sr.no.14, 33.6 (80%)	55 (91%)	60 (85%)	70 (87%)
16	Hydrostatic resistance, min. (Test specimen with joint) before UV exposure.	Kg/cm <sup>2</sup>	Annex - E of IS:15351: 2015	No through leakage at 20 kg/ cm <sup>2</sup>	35	No through leakage at 25 kg/ cm <sup>2</sup>	45	55	65
17	Hydrostatic resistance (Test specimen with joint) after UV exposure. for 1000 hours	Kg/cm <sup>2</sup>	Annex –B and Annex - E of IS:15351: 2015	Min. 80 % value as in Sr.no.16, 16 (80%)	32 (91%)	Min. 80 % value as in Sr.no.16, 20 (80%)	42 (93%)	50 (90%)	58 (89%)
18	Ash content, max	%	Annex - F of IS:15351: 2015	1.00	≤ 1.00	1.00	≤ 1.00	≤ 1.00	≤ 1.00

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