GEO SOURCE
info@geosource.in
www.geosource.in

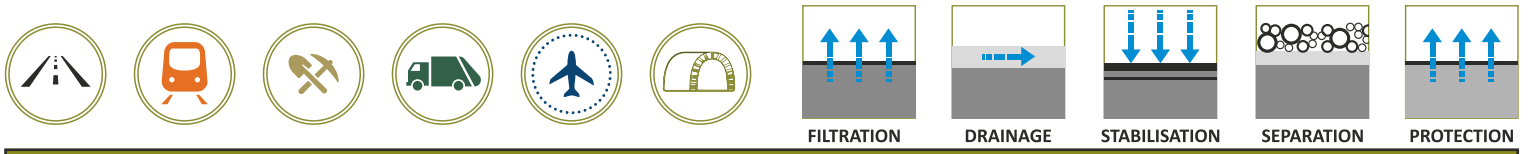


TECHNICAL DATA SHEET

Polyester Non-Woven Needle Punched Geo-Textile

"GEO SOURCE" GST1 is a UV Stabilized Needle-Punch Thermally Bonded Nonwoven Geo-Textile Made From 100% Recycled Polyester Staple Fibre, Which are Formed Into a Random Network for Dimensional Stability.

GEO SOURCE is GAI-LAP, NTPEP, CE-MARKING & ISO 9001-2015 Certified Company.



POLYESTER NON-WOVEN NEEDLE PUNCHED GEO-TEXTILE												
PROPERTIES	**TEST METHOD**	**UNIT**	**GST1 080**	**GST1 090**	**GST1 100**	**GST1 120**	**GST1 130**	**GST1 140**	**GST1 150**	**GST1 180**	**GST1 200**	**GST1 250**
PHYSICAL PROPERTIES												
GSM	ASTM D 5261	g/m2	80	90	100	120	130	140	150	180	200	250
Thickness	ASTM D 5199	mm	0.4	0.45	0.5	0.55	0.60	0.7	0.8	1	1.2	1.3
MECHANIICAL PROPERTIES												
Tensile Strength	ASTM D 4595	Kn/M	1	1.2	1.5	2.4	2.8	3.2	3.5	5	6	7
Elongation At Break	ASTM D 4595	%	50	50	50	50	50	50	50	50	50	50
Grab Tensile Strength	ASTM D 4632	N	80	90	120	150	180	200	230	280	320	400
Grab Elongation	ASTM D 4632	%	55	55	55	55	55	55	55	55	55	55
Trapezoidal Tear Strength	ASTM D 4533	N	30	40	50	70	80	90	100	130	150	180
CBR Puncture Strength	ASTM D 6241	N	250	280	350	480	550	600	650	850	1000	1250
HYDRAULIC PROPERTIES												
Water Flow Rate @ 50 mm Head	ASTM D 4491	l/m2/s	120	110	100	90	70	70	70	50	50	50
Apparent Opening Size	ASTM D 4751	micron	250	250	180	150	125	125	125	90	90	90
DURABILITY PROPERTIES												
UV Resistance @ 500 H	ASTM D 4355	%	70	70	70	70	70	70	70	70	70	70

ROLL PACKAGING	
Core	2" / 3"
Packaging	Wrapped In Black Stretch Film & Labeled For Identification

We can do OEM packaging and private labeling for bulk orders

- Above values are obtaining in our laboratory and are TYPICAL Values
- Tolerance: Physical & Mechanical: - 10 % & Hydraulic: +/- 30%
- There may be variation in above values due to various factors when tested at other laboratory.
- The above values may also vary if the fabric is converted in to any value added product or used in combination with other products.
- The values may also change due to transportation damages & improper storage and handling at site.
- Client shall ensure that Storage is strictly done as per ASTM standard.
- The values are not intended as warranty / guarantee and Geo Source assumes no liability in connection with this information.

ISO 9001 : 2015

Plot No – 306,307,314& 315 Dholka GIDC, Industrial Estate, Near Kheda Highway, Dholka 382225, Gujarat, India

GEO SOURCE
info@geosource.in
www.geosource.in

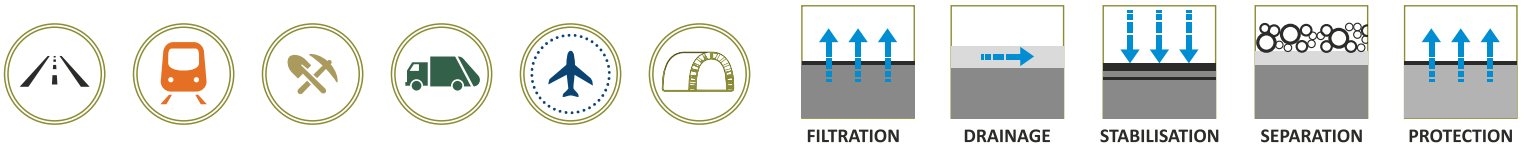


TECHNICAL DATA SHEET

Polyester Non-Woven Needle Punched Geo-Textile

"GEO SOURCE" GST1 is a UV Stabilized Needle-Punch Thermally Bonded Nonwoven Geo-Textile Made From 100% Recycled Polyester Staple Fibre, Which are Formed Into a Random Network for Dimensional Stability.

GEO SOURCE is GAI-LAP, NTPEP, CE-MARKING & ISO 9001-2015 Certified Company.



POLYESTER NON-WOVEN NEEDLE PUNCHED GEO-TEXTILE												
PROPERTIES	**TEST METHOD**	**UNIT**	**GST1 300**	**GST1 350**	**GST1 400**	**GST1 500**	**GST1 600**	**GST1 700**	**GST1 800**	**GST1 900**	**GST1 1000**	**GST1 1200**
PHYSICAL PROPERTIES												
GSM	ASTM D 5261	g/m2	300	350	400	500	600	700	800	900	1000	1200
Thickness	ASTM D 5199	mm	1.4	1.6	1.8	2.2	2.5	3	3.5	4	5	6
MECHANIICAL PROPERTIES												
TTensile Strength	ASTM D 4595	Kn/M	8	9	10	13	15	18	22	25	28	35
Elongation At Break	ASTM D 4595	%	50	50	50	50	50	50	50	50	50	50
Grab Tensile Strength	ASTM D 4632	N	480	550	650	750	850	950	1050	1150	1250	1450
Grab Elongation	ASTM D 4632	%	55	55	55	55	55	55	55	55	55	55
Trapezoidal Tear Strength	ASTM D 4533	N	200	230	270	320	370	430	500	570	650	750
CBR Puncture Strength	ASTM D 6241	N	1400	1600	1850	2300	2800	3200	3700	4300	4700	5500
HYDRAULIC PROPERTIES												
Water Flow Rate @ 50 mm Head	ASTM D 4491	l/m2/s	40	40	40	30	30	25	25	20	20	15
Apparent Opening Size	ASTM D 4751	micron	75	75	75	75	75	75	75	75	75	75
DURABILITY PROPERTIES												
UV Resistance @ 500 H	ASTM D 4355	%	70	70	70	70	70	70	70	70	70	70

ROLL PACKAGING	
Core	2" / 3"
Packaging	Wrapped In Black Stretch Film & Labeled For Identification

We can do OEM packaging and private labeling for bulk orders

- Above values are obtaining in our laboratory and are TYPICAL Values
- Tolerance: Physical & Mechanical: - 10 % & Hydraulic: +/- 30%
- There may be variation in above values due to various factors when tested at other laboratory.
- The above values may also vary if the fabric is converted in to any value added product or used in combination with other products.
- The values may also change due to transportation damages & improper storage and handling at site.
- Client shall ensure that Storage is strictly done as per ASTM standard.
- The values are not intended as warranty / guarantee and Geo Source assumes no liability in connection with this information.

ISO 9001 : 2015

Plot No – 306,307,314& 315 Dholka GIDC, Industrial Estate, Near Kheda Highway, Dholka 382225, Gujarat, India