



JE-CGM is manufactured from high quality Polymers. The HDPE resins are extruded and caliberated between two heated rolls into thin sheets and then sandwiched between polymeric randomly laid fibres which are mechanically bonded through needle-punching to form a strong, flexible and dimensionally stable fabric structure. The CGM is resistant to chemicals and biological organisms normally found in soils and are stabilized against degradation due to short-term exposure to ultraviolet radiation. JE-CGM conforms to the following property values,

PRODUCT CODE: ECO CGM-P25825

	TESTS / PROPERTIES	UNIT	Material for Protection	CGM
Sr No	PHYSICAL PROPERTIES		TEST METHOD	Values
I	<b>Core (Geomembrane)</b>			
	Material – HDPE			
	Thickness	MM	ASTM D 5199	0.8
	Density	Gm/cc	ASTM D 1505	0.94
II	<b>Sheath (Geo Textile)</b>			
	Material- Nonwoven needle punch			
	Mass per unit area (Top & Bottom)	g/sqm	ASTM D 5261	≥ 400
	<b>Composite (Composite Geotextile)</b>			
	Mass per unit area	g/sqm	ASTM D 5261	>1220
	Thickness	MM	ASTM D 5199	> 4
	Tensile Strength CD	kN/m	ASTM D 4595	≥ 22
	Tensile Strength MD	kN/m	ASTM D 4595	≥ 27
	Elongation @ Break	%	ASTM D 4595	50-75
	Tear Resistance	N	ASTM D 4533	600
	Puncture Resistance	N	ASTM D 4833	600
	CBR Puncture Resistance	N	ASTM D 6241	≥ 3000
	Strength loss after acid and alkali test from 2PH to 13PH	%	EN 14030:2003	<10

**Note :** The above values are effective from 21 – 09 – 2022. The values are average roll values in which all the properties are having ±10% tolerances. Water Permeability, Elongations are having +/-30% tolerance. The information given in this data sheet is based on tests conducted at our in-house laboratory and independent accredited laboratories. While the information is presented as a true and accurate representation of the attributes of the products to the best of our knowledge, no expressed or implied warranties are made and JEEVAN ECOTEX assumes no responsibility or liability with regard to the use of this information. The right to make periodic revisions of the specifications without prior notice is reserved.