

Laboratory Megaplast India Private Limited, Survey No. 597/2 (B), Somnath,
Dabhel, Nani Daman, Daman & Diu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5763

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Validity 22.04.2018 to 21.04.2020

Last Amended on 08.05.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	PLASTIC & RESINS			
1.	Plastic Films Geo membrane	Carbon Black Content (CBC)	ASTM D 1603: 2014 ASTM D 4218: 2008	1 % to 5 %
		Oven Aging (Oxidative Induction Time(OIT) Retention %	ASTM D 5721: 2013 ASTM D 3895: 2014 ASTM D 5885: 2015	30 % to 99 %
		UV Resistance (Oxidative Induction Time) Retention %	ASTM D 7238: 2012 ASTM D 5885: 2015	30 % to 99 %
		OIT (Oxidative Induction Time)	ASTM D 3895: 2014 ASTM D 5885: 2015	1 min to 2000 min
		Carbon Black Dispersion (CBD)	ASTM D 5596: 2009	Qualitative
		Environmental Stress Crack Resistance (ESCR)	ASTM D 1693: 13 ASTM D 5397: 2012	Qualitative

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MECHANICAL TESTING

I.	PLASTIC & RESINS			
1.	Plastic Sheets Geo membrane	Tensile Strength At Yield At Break	ASTM D-6693: 04 (RA 2015)	5 kN/m to 70 kN/m 7 kN/m to 1200 kN/m
		Elongation At Yield At Break		7 % to 25 % 300 % to 1200 %
		Tear Resistance	ASTM D 1004: 2013	30 N to 800 N
		Index Puncture	ASTM D 4833: 2013	100 N to 600 N
		Density at 23°C	ASTM D 792: 2013	0.900 g/cc to 0.975 g/cc
		Thickness	ASTM D 5199: 2012	0.1 mm to 5.0 mm

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