

Laboratory	IDMA Laboratories Limited, Plot No. 391, Industrial Area, Phase I, Panchkula, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	25.05.2014
Certificate Number	T-0188	Valid Until	23.05.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. BUILDING MATERIALS				
1. CEMENT	Fineness by specific surface		IS: 4031(Pt-2) 1988 RA 2004	150-450 m ² /kg
	Soundness by Le-Chatelier		IS: 4031(Pt-3) 1988 RA 2005 Amd.1	1-100mm
	Soundness by Autoclave		IS: 4031(Pt-3) 1988 RA 2005 Amd.1	0.001-1%
	Consistency of cement paste		IS: 4031(Pt-4) 1988 RA 2005	25-40%
	Setting time		IS: 4031(Pt-5) 1988 RA 2005 Amd.1	5-600 Minutes
	Compressive strength		IS: 4031(Pt-6) 1988 RA 20005 Amd.3	5-100 N/mm ²
	Drying Shrinkage test		IS: 4031(Pt-10) 1988 RA 2005	0.001-1%
	Specific gravity test		IS: 4031(Pt-11) 1988 RA 2005	1.5-4
2. AGGREGATES	Particle Size & Shape			
	Sieve analysis		IS:2386(Pt-1) 1963 RA 2002 Amd.3	0-100%
	Determination of Material Finer than 75micron IS sieve		IS:2386(Pt-1) 1963 RA 2002 Amd.3	0.5-20%
	Flakiness Index		IS:2386(Pt-1) 1963 RA 2002 Amd.3	1-99%
	Elongation index		IS:2386(Pt-1) 1963 RA 2002 Amd.3	1-99%

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		Estimation of Deleterious materials and Organic impurities (1) Clay Lumps (2) Coal & Lignite (3) Soft Fragments (4) Organic Impurities	IS:2386(Pt-2) 1963 RA 2002 Amd.1	0.5-10%
		Specific Gravity	IS:2386(Pt-3) 1963 RA 2002	1.2-3.5
		Water absorption	IS:2386(Pt-3) 1963 RA 2002	0.1-5%
		Bulk density	IS:2386(P-3) 1963 RA 2002	1-2.5 g/ml
		Crushing Value	IS: 2386(Pt-4) 1963 RA 2002 Amd.3	5-70%
		Impact value	IS: 2386(Pt-4) 1963 RA 2002 Amd.3	5-70%
		Aggregate abrasion value	IS:2386(Pt-4) 1963 RA 2002 Amd.3	5-70 %
		10% fine value	IS:2386 (Pt-4) 1963 RA 2002 Amd.3	5-600kN
		Soundness	IS:2386(Pt-5)) 1963 RA 2002 Amd.2	1-20%
3.	STRENGTH OF CONCRETE	Compressive Strength	IS: 516-1959 RA 2004 Amd.2	1-260kg/cm ²

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4.	BRICKS	Water Absorption	IS 3495 (Pt-2)-1992	0-100%
		Compressive Strength	IS 3495 (Pt-1)-1992	0-50 N/mm ² (1N/mm ²)
		Efflorescence	IS 3495 (Pt-3)-1992	Visual
		Dimensions		
		Length	IS 1077-1992	0-300 mm
		Width	IS 1077-1992	0-150 mm
		Height	IS 1077-1992	0-100 mm
5.	STEEL FOR CONSTRUCTION & ENGINEERING PURPOSES:	Mass	IS1786-2008 IS:1732-1989 IS: 1730-1989 RA 1999 IS: 278-2009	5-10000g
		0.2% proof stress/ yield stress	IS: 1608-2005	2-1000 N/mm ²
		Elongation %	IS: 1608-2005	5-50%
		Tensile strength	IS: 1608-2005	2-1000 N/mm ²
		Bend Test	IS: 1599-2012 IS: 280-1978 RA 2001 IS: 1716-1971 RA 1996	NA

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		Re-Bend Test	IS: 1786-2008	NA
		Dimensions	IS: 432 (Pt-I/II)1982 RA 2000 IS: 808-1989 RA1999 IS:6911-1992 RA 1998 IS: 278-2009 IS: 280-1978 RA 2001 IS:1732-1989	1-150 mm 5-300 mm 5-2000 mm
II. TEXTILES MATERIALS				
1.	TEXTILE, FABRIC, YARN, LACES	Weave/ Folds of Yarn	-	Visual
		Wool Fiber Diameter	IS:744-2000	10 - 100 Microns
		Linear density	IS:1315-1977 RA 2003	Upto 130 ^s CC
		Twist	IS:832-1985	10-9999 Turns
		Threads per unit length of woven fabric (Ends/Picks/dm)	IS:1963-1981 RA 1999	10-1000 per dm
		Mass per unit Length and mass per unit area of fabric	IS:1964-2001	10-1000 gm/Sq.m
		Length and Width of Fabric	IS:1954-1990	2 - 300 cm
		Breaking Load and elongation Grab	IS: 1969-1985	Upto 500 Kgs

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	Breaking Load and elongation Strip	IS: 1969-1985	Upto 500 Kgs
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	Tear strength	IS 7016 (Pt 3) Method B-1981 RA 2003	320 - 5120 gf
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III. PLASTICS, RUBBER & LEATHER

1. LEATHER; SHOES, BOOT	Dimensions: Thickness	IS:5914 (LP-2)-1970 RA 2003 A-I	0.1-10 mm
	Dimensions: Width	IS:5914 (LP-3)-1970 RA 2003 A-I	0.5-10 mm
	Apparent Density	IS:5914 (LP-5)-1970 RA 2003 A-I	0.5-2 g/cc
	Tensile Strength	IS:5914 (LP-6)-1970 RA 2003 A-I	10-500 kg/cm ²
	Elongation	IS:5914 (LP-6)-1970 RA 2003 A-I	50-1000%
	Absorption of Water	IS:5914 (LP-11)-1970 RA 2003 A-I	Upto 100 %
	Resistance to Cracking of Grain and Grain Index	IS:5914 (LP-13)-1970 RA 2003 A-I	Visual
	Water Vapour Permeability Test	IS:5914 (LP-21)-1970 RA 2003 A-I	0.5-3 mg/cm ² /hour

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2.	PLASTIC LDPE/HDPE FILMS, SACKS, SHEETS & PLASTIC PACKAGING PRODUCTS	Thickness	IS: 2508-1984 RA 1997 IS: 10889-1984 RA 1997	1-10 mm 0.002-1 mm
		Yield Tolerance	IS: 2508-1984 RA 1997 IS: 10889-1984 RAA1997	±1-±15%
		Tensile strength break	IS: 2508-1984 RA 1997 IS: 10889-1984 RA 1997	10-500 kg/cm ²
		Elongation at break	IS: 2508-1984 RA 1997 IS: 10889-1984 RA 1997	50-1500%
		Impact resistance	IS: 2508-1984 RA 1997 IS: 10889-1984 RA 1997	1-800g
		Melt Flow Index	IS:2530-1963 RA 1991	0.02-1g/10 min
		Breaking Load test	IS: 1969-1992	1-250 kg
		Seam Breaking Load	IS: 9030-1992 RA 1998	1-250 kg
		Mass	IS: 14611-1998 IS: 7016(Pt-1)1982 RA 1998	1-200 gm
		Tear strength	IS 14611-Annex E 1998 RA 2003	320 gf - 5120 gf

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IV. PAPER & PAPER PRODUCTS				
1.	PAPER AND ALLIED PRODUCTS	Bursting Strength	IS-1060(Pt-1) 1966 RA 1992 Amd.4	1-35 Kg/cm ²
		Grammage (Substance)	IS:1060 (Pt-1) 1966 RA 1992 Amd.4	1-1000 g/m ²
-X-X-X-X-X-X-X-X-X-X-X-X-				