ANUKAMPA POLYMERS & TECHNOLOGIES PRIVATE LIMITED

ST1 SHEATHING GRADES

S.NO	PARTICULARS	UNITS	TEST METHOD	SPECIED VALUES AS PER IS 5831-84	TYPICAL VALUES							
	GRADES				TN 43 AS	TN 44	TN 47	TN48	TN 72	TN 171	TN 174	ANU 207
1	Before Ageing											
1.1	Tensile Strength(Min)	N/mm2	IS 10810 (part-7)84	12.5	14	13.5	14	16	15	15	15.5	13
1.2	Elongation(Min)	%	IS 10810 (part-7)84	150	350	330	315	350	380	340	350	280
2	After ageing at 1000c/7 days											
2.1	Tensile Strength	N/mm2	IS 10810 (part-11)84	12.5								
2.2	Variation in Tensile Strength	%	IS 10810 (part-11)84	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20
2.3	Elongation	%	IS 10810 (part-11)84	150								
2.4	Variation in Elongation	%	IS 10810 (part-11)84	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20
3	Thermal stability at 2000c(Min)	Minutes	IS 10810 (part-60)88	40	45	45	40	45	45	40	44	60
4	Volume Resistivity @ 270c	Ohm-cm	IS 10810 (part-43)84	NA	--	--	--	--	--	--	--	--
5	Volume Resistivity @ 700c	Ohm-cm	IS 10810 (part-43)84	NA	--	--	--	--	--	--	--	--
6	Loss of Mass1000c/7days	Mg /cm2	IS 10810 (part-10)84	2max	2	2	2	2	2	2	2	2
7	Specific Gravity	NO	APT	-	1.41	1.46	1.47	1.34	1.41	1.43	1.43	1.4
8	Hardness	Shore-A	APT	-	73	78	78	78	73	76	81	80
9	Colour Fastness to Water	NO	IS 5831-1984	NO traces of color								
			Appendix-A									
10	Cold bend Test at -150c/2to3 hr	NO	IS 10810 (part-20)84	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks
11	Shrinkage Test 1500c/15 mins	%	IS 10810 (part-12)84	4max	2.8	2.4	2.8	2	2	1.8	3	3.2
12	Heat Shock Test 1500c/1hr	NO	IS 10810 (part-14)84	No signs of cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks
13	Remarks											

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ST1 SHEATHING GRADES

S.NO	PARTICULARS	UNITS	TEST METHOD	SPECIED VALUES AS PER IS 5831-84	TYPICAL VALUES							
	GRADES				TN 274	TN 315	TN 369	TN 388 B	TN 396	TN 403	TN 540	ANU 2504
1	Before Ageing											
1.1	Tensile Strength(Min)	N/mm2	IS 10810 (part-7)84	12.5	14.5	14	14	14.5	14.5	15.5	15	15.5
1.2	Elongation(Min)	%	IS 10810 (part-7)84	150	350	360	365	335	350	340	370	300
2	After ageing at 1000c/7 days											
2.1	Tensile Strength	N/mm2	IS 10810 (part-11)84	12.5								
2.2	Variation in Tensile Strength	%	IS 10810 (part-11)84	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20
2.3	Elongation	%	IS 10810 (part-11)84	150								
2.4	Variation in Elongation	%	IS 10810 (part-11)84	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20	+/- 20
3	Thermal stability at 2000c(Min)	Minutes	IS 10810 (part-60)88	40	70	40	54	55	55	60	47	55
4	Volume Resistivity @ 270c	Ohm-cm	IS 10810 (part-43)84	NA	--	--	--	--	--	--	--	--
5	Volume Resistivity @ 700c	Ohm-cm	IS 10810 (part-43)84	NA	--	--	--	--	--	--	--	--
6	Loss of Mass1000c/7days	Mg /cm2	IS 10810 (part-10)84	2max	2	2	2	2	2	2	2	2
7	Specific Gravity	NO	APT	-	1.41	1.46	1.44	1.44	1.44	1.38	1.45	1.44
8	Hardness	Shore-A	APT	-	73	75	78	76	78	77	76	81
9	Colour Fastness to Water	NO	IS 5831-1984	NO traces of color								
			Appendix-A									
10	Cold bend Test at -150c/2to3 hr	NO	IS 10810 (part-20)84	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks
11	Shrinkage Test 1500c/15 mins	%	IS 10810 (part-12)84	4max	2.4	3	2.6	3	2.8	2.4	3.2	3.2
12	Heat Shock Test 1500c/1hr	NO	IS 10810 (part-14)84	No signs of cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks	No cracks
13	Remarks											