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

MECHANICAL TESTING

I.	RUBBER AND RU	BBER PRODUCTS		
1.	Rubber Vulcanizate	Durometer Hardness (Shore A)	IS 3400 Part 23 ISO-7619	5 to 95
		De Mattiá Flex	IS 3400 Part 7 IS 3400 Part 8	Upto 99999 cycles
		Compression Set	IS 3400 Part 10	Upto 100%
		Rebound Resilience	IS 3400 Part 11	15 % to 80%
2.	Vulcanised / thermo plastic	Specific Gravity Density	IS 3400 Part 09 ISO-2781	0.05 g/cc to 5 g/cc
	rubbers	Tensile Strength, Elongation @ break Modulus	IS 3400 Part 01 ISO-37	23 kg/ cm ² to 250 kg/ cm ²
		Water Absorption	IS 3400 Part 06 ISO 1817	0.05 % to 100 %
		Swelling Test	IS 3400 Part 06 ISO 1817	(+) 0.05 % to 150% (-) 0.05 % to 50%
		Accelerated Ageing	IS 3400 Part 04 ISO 188	23 kg/ cm ² to 250 kg/ cm ²
		Ross Flex	IS 3400 Part 16	Upto 99999 cycles
		Abrasion Resistance (Volume Loss)	IS 3400 Part 03	10 mm ³ to 600 mm ³
		Angular Tear Strength	IS 3400 Part 17	10 kg/cm to 100 kg/cm
		Ozone Resistance	IS 3400 Part 20 ISO 1431 – 1	Qualitative 30 pphm to 200 pphm
		Tension set	IS 3400 Part 13	Upto 100%
		Bond Strength	IS 3400 Part 14	0.1 kgf to 50 kgf
		Mooney Viscosity of Natural Rubber	IS 3660 Part 07 ISO 289 – 1	15 Mooney Units to 200 Mooney Units
		Mooney Viscosity of Synthetic Rubber	IS 11720 Part 03	15 Mooney Units to 200 Mooney Units

Laboratory	Attuned Polymers Laboratories, 311, Rajasthan Technical Centre, Patanwala Estate, L. B. S. Marg, Ghatkopar (West), Mumbai, Maharashtra		
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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Fabric bonded to rubber	Adhesion of rubber to textile fabric	IS 3400 Part 5	0.1 kgf to 50 kgf
4.	Raw Rubber / Un-vulcanized Compound / Rubber Vulcanizate	Ash Content	ASTM D 297 Sec 36.	0.01% to 99%
II.	PLASTIC AND POLYMERS			
1.	Thermo plastic polymers	Melt flow Index	IS – 2530 (Method A) ASTM D – 1238 – 13 DIN EN ISO 1133 -1-03 EN ISO 1133–1 (E)	0.15 g / 10 minutes to 50 g / 10 minutes