

Laboratory JK Tyre & Industries Limited (Truck Radial Plant-II) - Central Laboratory, 437, Hebbal Industrial Area, Mysuru, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5439

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Validity 10.03.2018 to 09.03.2020

Last Amended on 12.03.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>MECHANICAL TESTING</u>				
I.	RUBBER & RUBBER PRODUCTS			
1.	Pneumatic Tyres	Outer Diameter	IS 15636, Cl 4.1., Annex A	780 mm to 1250 mm
		Sectional Width	E/ECE/324 GE /TRANS/505, Annex 6 GSO 646, Cl 3	200 mm to 385 mm
		Endurance Pulley Wheel - Load Performance	IS 15636, Annex B (4.2.1), Table 26 Cl. 4.2	Qualitative
2.	Reinforcing Material - Steel cord	Breaking Strength	ASTM D 2969-04	100 N to 9000 N
		Gauge	ASTM D 2969-04	1 mm to 5 mm
3.	Reinforcing Material- Bead Wire	Breaking Strength	ASTM D 4975-14	100 N to 9000 N
		Gauge	ASTM D 2969-04	1 mm to 5 mm
4.	Rubber Cured Elastomeric Compound	Modulous @ 100%	ASTM D 412-15a	0.7 MPa to 11 MPa
		Modulous @ 200%	ASTM D 412-15a	1.5 MPa to 15 MPa
		Modulous @ 300%	ASTM D 412-15a	1.7 MPa to 22 MPa
		Tensile Strength	ASTM D 412-15a	3 MPa to 32 MPa
		Elongation at Break	ASTM D 412-15a	50 % to 1000 %
		Thickness	ASTM D 3767-03	1 mm to 8 mm
5.	Filled Elastomeric Compound	Hardness	ASTM D 2240-15	30 Shore A to 90 Shore A
		Curing Behavior	ASTM D 5289-12	0.5 LBIN to 35 LBIN
		Mooney Viscosity	ASTM D 1646-15	5 MU to 200 MU