



**ZENITH** INDUSTRIAL RUBBER PRODUCTS PVT. LTD.  
Quality Rubber Solutions

An ISO 9001:2008 Registered Company  
An ISO 14001:2004 Registered Company

**GOVT.RECOGNISED EXPORT HOUSE**

**TECHNICAL SPECIFICATIONS**

**PRODUCT CODE : ELS**

**QUALITY : ELECTRICAL INSULATION MATTING AS PER CEI 61111:2009**

Clause No.	PROPERTIES	SPECIFICATION
-	Specific gravity	1.50
-	Hardness, Shore A	70
-	Tensile Strength, Kg/cm <sup>2</sup>	50 Min.
-	Elongation at Break, %	250 Min.
-	Color	GREY / BLACK
-	Surface Finish	FINE RIB / FABRIC FINISH / SMOOTH

**AS PER CEI 61111:2009 ELECTRICAL PROPERTIES**

5.5	MECHANICAL TESTS		
5.5.2	Mechanical Puncture test	Min 70 N	
5.5.3	Slip Resistance	Avg. force higher than 50 N	
5.6.2.2 &	Class	PROOF TEST	WITHSTAND TEST
5.6.2.3	Class -0	5 KV for 3 Minutes	10 KV - No electrical puncture
	Class -1	10 KV for 3 Minutes	20 KV - No electrical puncture
	Class -2	20 KV for 3 Minutes	30 KV - No electrical puncture
	Class -3	30 KV for 3 Minutes	40 KV - No electrical puncture
	Class -4	40 KV for 3 Minutes	50 KV - No electrical puncture
5.7	AGEING TEST AT 70±2 °C/168 HRS		
	Mechanical Puncture test	Should be Minimum 80% of Original Value	
5.8	THERMAL PROPERTIES		
5.8.1	Flame Retardance	Flame should not propagated within a 50 mm diameter from the centre	
5.8.2	Low Temperature Resistance (4 hr at -25 ± 3°C)		
	a) Visual Inspection	No Cracks	
	b) Voltage Withstand	No Electrical Puncture	
5.9	ACID RESISTANCE ( 32 °Baume [37.26 %] sulphuric acid for 8 hrs at 23 ± 2 ° C )		
	a) Voltage Withstand	No Electrical Puncture	
	b) Puncture Resistance	Should be Minimum 75% of Original Value	
5.1	OIL RESISTANCE - Liquid 102 as per Annexure E (For 24 hrs at 70 ± 2°C)		
	a) Voltage Withstand	No Electrical Puncture	
	b) Puncture Resistance	Should be Minimum 75% of Original Value	



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