

# GOVT.RECOGNISED EXPORT HOUSE

## TECHNICAL SPECIFICATIONS

PRODUCT CODE : ELM 50000 / ELM 3000

QUALITY : ELECTRICAL INSUALTION 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	<u>MECHANICAL TESTS</u>		
5.5.2	Mechanical Puncture test	Min 70 N	
5.5.3	Slip Resistance	Avg. force higher than 50 N	
5.6.2.2 &	<b>Class</b>	<b>PROOF TEST</b>	<b>WITHSTAND TEST</b>
5.6.2.3	Class -0	5 KV for 3 Minutes	10 KV - No electical puncture
	Class -1	10 KV for 3 Minutes	20 KV - No electical puncture
	Class -2	20 KV for 3 Minutes	30 KV - No electical puncture
	Class -3	30 KV for 3 Minutes	40 KV - No electical puncture
	Class -4	40 KV for 3 Minutes	50 KV - No electical puncture
5.7	<b>AGEING TEST AT 70±2 °C/168 HRS</b>		
	Mechanical Puncture test	Should be Minimum 80% of Original Value	
5.8	<b>THERMAL PROPERTIES</b>		
5.8.1	Flame Retardance	Flame should not propogated 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	<b>ACID RESISTANCE ( 32<sup>o</sup>Baume [37.26 %] sulphuric acid for 8 hrs at 23 ± 2 ° C )</b>		
	a) Voltage Withstand	No Electrical Puncture	
	b) Puncture Resistance	Should be Minimum 75% of Original Value	
5.1	<b>OIL RESISTANCE - Liquid 102 as per Annexure E (For 24 hrs at 70 ± 2°C)</b>		
	a) Voltage Withstand	No Electrical Puncture	
	b) Puncture Resistance	Should be Minimum 75% of Original Value	



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