

TECHNICAL SPECIFICATIONS			
QUALITY : ELECTRICAL INSUALTION MATTING AS PER IEC 61111:2009			
Clause No.	PROPERTIES	TEST METHOD	SPECIFICATION
	Specific gravity	DIN 53508	1.50 ± 0.05
	Hardness, Shore A	DIN 53505	70 ± 5
	Tensile Strength, Kg/cm <sup>2</sup>	DIN 53504	40
	Elongation at Break, %	DIN 53504	200
AS PER IEC 61111:2009 ELECTRICAL PROPERTIES			
5.6.2.2	<b>PROOF TEST</b>		
	Class -0 (1.5 mm) Base thickness		5 KV for 3 Minutes
	Class -1 (2 mm ) Base thickness		10 KV for 3 Minutes
	Class -2 (3 mm )Base thickness		20 KV for 3 Minutes
	Class -3 (4 mm )Base thickness		30 KV for 3 Minutes
	Class -4 (5 mm ) Base thickness		40 KV for 3 Minutes
5.6.2.3	<b>WITHSTAND TEST</b>		
	Class -0 (1.5 mm )		10 KV - No electical puncture
	Class -1 (2 mm )		20 KV - No electical puncture
	Class -2 (3 mm )		30 KV - No electical puncture
	Class -3 (4 mm )		40 KV - No electical puncture
	Class -4 (5 mm )		50 KV - No electricals puncture
5.5.2	<b>MECHANICAL PUNCTURE RESISTANCE, MIN</b>		70 N
5.7	<b>AGEING TEST AT 70°C/168 HRS</b>		PUNCTURE RESISTANCE SHOULD BE MINIMUM 80% OF ORIGINAL VALUE - PASS
5.9	<b>ACID RESISTANCE TEST AT SULFURIC ACID SOLN/23°C/8HRS</b>		
	A)WITHSTAND TEST		10 KV - NO ELECTRICAL PUNCTURE (1 MIN.) - PASS
	B) MECHANICAL PUNCTURE RESISTANCE		PUNCTURE RESISTANCE SHOULD BE MINIMUM 75% OF ORIGINAL VALUE - PASS
5.1	<b>OIL RESISTANCE AT 70°C/24HRS/OIL # 1</b>		
	A)WITHSTAND TEST		10 KV - NO ELECTRICAL PUNCTURE (1 MIN.) - PASS
	B) MECHANICAL PUNCTURE RESISTANCE		PUNCTURE RESISTANCE SHOULD BE MINIMUM 75% OF ORIGINAL VALUE - PASS
5.5.3	<b>SLIP RESISTANCE TEST</b>		AVG. FORCE HIGHER THAN 50 N - PASS
5.8.2	<b>LOW TEMPERATURE FOLDING TEST AT -25°C for 4 hrs</b>		
	<b>COLOUR</b>		GREY / BLUE/ YELLOW/BLACK
	<b>SURFACE FINISH</b>		FINE RIB/FABRIC FINISH/SMOOTH

