



**IKEBANA
ENGINEERING LTD.**
Heat shrinkable cable accessories

Heat Shrinkable Medium Wall Non-Tracking Tubes Specification Sheet

Sr. No.	Characteristics	Requirement	Frequency	Control Method
	Product Control			
1	Visual	Good and free from defects	100% - daily	Internal
2	Dimensions	As per Dimension Table	5 samples - daily	Internal
3	Concentricity	min 60%	3 samples - daily	Internal
4	Longitudinal Change	±10%	3 samples - daily	Internal
5	Tensile strength	min 8 MPa (N/mm ²)	5 samples-routine	ASTM D 638
6	Ultimate elongation	min 200%	5 samples-routine	ASTM D 638
7	Heat Shock (250°C, 30 mins)	No splitting, cracking or flowing	Qualification	EATS 09-13
8	Dielectric strength	min 10 kV/mm	Qualification	IEC - 243
9	Resistance to tracking	Class 1A, 3.5 kV for 6 hours	Qualification	IEC - 587
10	Tensile strength after thermal ageing (135°C, 168 hrs)	min 6 MPa (N/mm ²)	Qualification	EATS 09-13
11	Ultimate elongation after thermal ageing (135°C, 168 hrs)	min 150%	Qualification	EATS 09-13
12	Volume resistivity	min 10 ¹⁴ ohm.cm	Qualification	IEC - 93
13	Secant modulus	max 170 MPa	Qualification	EATS 09-13
14	Water absorption	max 1%	Qualification	ISO - 62
		Frequency	Agency	
	Daily	- Routine test during production	In-house	
	Qualification	- Whichever is earlier of the following	External and In-house	
		a. At the time of introduction of new product		
		b. After a significant change in formulation		
		c. Every three years		
	Compounding	- For compounding of every batch of material.	In-house	

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