

Heat Shrinkable Medium Wall Low Voltage 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	Concenticity	min 60%	3 samples - daily	Internal
4	Longitudinal Change	±10%	3 samples - daily	Internal
5	Tensile strength	min 12 MPa (N/mm ²)	5 samples-routine	ASTM D 638
6	Ultimate elongation	min 200%	5 samples-routine	ASTM D 638
7	Heat Shock (200 ⁰ C, 30 mins)	No splitting, cracking or flowing	Qualification	ASTM D 2671
8	Dielectric strength	min 10 kV/mm	Qualification	IEC - 243
9	Tensile strength after thermal ageing (158°C, 168 hrs)	min 10 MPa (N/mm²)	Qualification	ASTM D 2671
10	Ultimate elongation after thermal ageing (158ºC, 168 hrs)	min 100%	Qualification	ASTM D 2671
11	Volume resistivity	min 10 ¹² ohm.cm	Qualification	IEC - 93
12	Secant modulus	max 123 MPa	Qualification	ESI 09-11
13	Water absorption	max 1%	Qualification	ISO - 62
	Raw Material Control			
14	Carbon black content	min 2.5%	Compounding	BS 2782 Meth452 B : 1978
		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	