



**CONDUCTIVE BREAKOUT SPECIFICATION SHEET**

	Characteristics	Requirement	Frequency	Control Method
	Product Control			
1	Visual	Good and free from defects	100% - daily	Internal
2	Dimensions	As per Engineering Drawing	5 samples - daily	Internal
3	Tensile strength	min 12 MPa (N/mm <sup>2</sup> )	5 samples - daily	ASTM D 638
4	Ultimate elongation	min 300%	5 samples - daily	ASTM D 638
5	Hardness	min 38 shore D	Daily	ASTM D 2240
6	Tensile strength after thermal ageing (135°C, 168 hrs)	min 10 MPa (N/mm <sup>2</sup> )	Qualification	EATS 09-13
7	Ultimate elongation after thermal ageing (135°C, 168 hrs)	min 250%	Qualification	EATS 09-13
8	Heat Shock (250°C, 30 mins.)	no splitting, cracking, dripping or flowing	Qualification	EATS 09-13
9	Water absorption	max 1%	Qualification	ISO - 62
10	Volume resistivity	2 * 10 <sup>4</sup> ohm.cm	Qualification	IEC 60093
<b>Raw Material Control</b>				
11	Tensile strength	min 12 MPa (N/mm <sup>2</sup> )	Compounding	ASTM D 638
12	Ultimate elongation	min 300%	Compounding	ASTM D 638
13	Hardness	min 38 shore D	Compounding	ASTM D 2240
		<b>Frequency</b>	<b>Agency</b>	
		<b>Daily</b>	- Routine test during production	In-house
		<b>Qualification</b>	- Whichever is earlier of the following	External or In-house
		a. At the time of introduction of new product		
		b. After a significant change in formulation		
		c. Every three years		
		<b>Compounding</b>	- For compounding of every batch of material.	In-house