

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% - daily	Internal
3	Tensile strength	min 12 MPa (N/mm ²)	10 samples - daily	ASTM D 638
4	Ultimate elongation	min 300%	10 samples - daily	ASTM D 638
5	Environmental: 7 days outdoor at 15 PSI	No leakage at 15 PSI	1 installation - daily	Internal
6	Air Pressure Test : 30 PSI for 4 hours	No leakage	1 installation - daily	Internal
7	Hardness	min 45 Shore D	Daily	ASTM 2240
8	Tensile strength after thermal aging (120° C, 168 hours)	min 10 MPa (N/mm ²)	Qualification	ISO - 188
9	Ultimate elongation after thermal aging (120°C, 168 hours)	min 250%	Qualification	ISO - 188
10	Environmental Cycling - 8 cycles 6 hours at 60°C, 6 hours at -10°C. Pressurized at 10 PSI	No leakage at 10 PSI for 15 minutes	Qualification	Internal
11	Water absorption	max. 1%	Qualification	ISO - 62
12	Dielectric strength	min 12 kV/mm	Qualification	IEC - 243
13	Volume resistivity	min 10 ¹¹ ohm-cm	Qualification	IEC - 93
	Raw material Control			
14	Carbon Black Content	min 2%	Qualification	BS 2 782 Method-452 B:1978
15	Tensile strength	min 12 MPa (N/mm ²)	Compounding	ASTM D 638
16	Ultimate elongation	min 300%	Compounding	ASTM D 638
17	Hardness	min 45 Shore D	Compounding	ASTM 2240
		Frequency	Agency	
	Daily	- Routine test during production	In - house	
	Qualification	- Whichever is earlier of the following	External & 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	External	