

HSP I—Jumbo Tubing

Features & Benefits

- Reduce bus bar clearance requirement
- Give designer more freedom in designing switchgear cabinets when space is premium
- Protects against accidental flashover up to 1kV
- Protects against corrosion dirt and other contaminants that may cause accidental flashover
- Halogen free
- Flame resistant with oxygen index higher than 27
- Available in continuous length for convenient and economical installation



Standard Colours & Colour Codes

Black - 0

Applications

Bus bar insulation and protection. In switchgears cabinets where space is limited and air spacing between bus bars need to be kept at minimal.

Test Item	Test Method	Typical Value
Density	ASTM D2671	1.3~1.35
Thermal endurance	IEC 216	105°C
Tensile strength	ASTM D2671	>12Mpa
Ultimate elongation	ASTM D2671	>400%
Accelerated ageing 168hrs at 136°C		
Tensile strength		
Ultimate elongation	ASTM D2671	>12Mpa >300%
Low temperature flexibility 4hrs at -40°C	ASTM D2671	No cracking
Heat shock 4hrs at 200°C	ASTM D2671	No drop / no flow
Flammability	ASTM D2863	OI>30
Smoke index	/	Less than 120
Dielectric strength	ASTM D2671	>20kV/mm
Volume resistivity	ASTM D2671	>1014Ω.cm
Water absorption 336hrs at 23°C	ASTM D570	<0.5%
Resistance to selected fluids 168hrs at 23°C		
Tensile strength	IEC 60684-2	>8Mpa
Ultimate elongation		>250%
Copper corrosion 158°C for 168hrs	IEC 60684-3	Pass
Long term ageing 3000hrs at 120°C		
Elongation at break	IEC 60684-2	>175%
Colour fastness to light	IEC 60684-3	Contrast between exposed and unexposed parts. The colour does not change

Max ~ Min a+b (mm)		Max ~ Min d (mm)		Min. Thick- ness for 1kV Shrink on The Bus Bar (mm)	Stand- ard Length (m/roll)	Ordering Description
130	70	90	55	0.8	25	HSP1-120.0/60.0-0-SP
165	85	100	55	0.8	25	HSP1-150.0/75.0-0-SP
195	130	130	75	1.0	25	HSP1-180.0/90.0-0-SP
260	175	160	110	1.0	25	HSP1-230.0/115.0-0-SP

