IPOTEC

Innovation in Polymer Technology

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TECHNICAL DATA:

GS-N5 INSULATION SLEEVING -SILICONE RUBBER COATED FIBERGLASS

Thermal Properties

Operating temperature range	-70°C (-95°F) to 200°C (392°F); Can withstand short term exposure to 300°C (570°F) without deterioration in performance.					
Brittle temperature (ASTM D746)	-75°C (-103°F)					
Flammability	 GS-N5 - Extremely slow burning; zero burn rate under UL1441 horizontal flame test. GS-N5-FR - Self extinguishing; zero burn rate under UL1441 VW-1 vertical flame test. 					
Physical Properties (Typical)						
Glass fiber properties -	Electrical grade fiberglass, free from impurities; Environmentally safe (solvent-free) adhesion process.					

Coating Properties Durometer (ASTM D2240) Tensile strength (ASTM D412) Elongation (ASTM D412)	- - -	50 Sh A 960 psi 300%	
Push back after heat aging (ASTM D350 168 hrs / 250°C)	-	No cracks	

Excellent resistance to cut-through and abrasion. Highly flexible.

Chemical Properties

Resistant to moisture and weathering and to most chemicals and solvents; Compatible with most potting compounds and varnishes.

Electrical Properties

See following page

Electrical Properties

Dielectric Breakdown Strength

Sleeving	ASTM D372 /	Conditioning	Specification			
Reference	NEMA TF-1 Grade	(hrs/degC/%RH)	Minimum Average	Minimum Individual	Typical Value	
GS-N5A GS-N5A-FR A GS250A	•	48 / 23 / 50	8000V	6000V	10000V	
	A	96 / 23 / 93	6400V	4800V	9000∨	
GS-N5B GS-N5B-FR B GS250B	P	48 / 23 / 50	4000V	2500V	6000V	
	D	96 / 23 / 93	3200V	2000V	5000∨	
GS-N5C GS-N5C-FR GS250C	С	48 / 23 / 50	4000V	2500V	6000∨	
		96 / 23 / 93	3200V	2000V	5000∨	

Dielectric breakdown strength after aging 7 days at 265°C - average 90-110% of original.

Excellent resistance to corona discharge.