

EPR INSULATIONS

Physical and Electrical Specification Data

Test Requirements	0-5000 Volts		0-35,000 Volts	
	Guaranteed Value	Typical Value	Guaranteed Value	Typical Value
PHYSICAL PROPERTIES				
Original Tensile Strength, psi	700 min.	1000	1200 min.	1800
Original Elongation, percent	250 min.	400	250 min.	370
Tensile Stress @ 100% Elong., psi	N/A	N/A	500 min.	750
Aged - Air Oven - 168 Hr. @ 121°C				
Percent of Original				
Tensile	75 min.	95	80 min.	95
Elongation	75 min,	90	80 min,	95
Hot Creep, 150°C				
Elongation, %	50 max.	10	50 max.	10
Set, %	5 max.	0	5 max.	0
ELECTRICAL PROPERTIES				
Insulation Resistance Constant (K)	20,000 min.	>100,000	20,000 min.	> 100,000
SIC at R.T.	4.0 max.	2.8	4.0 max.	2.7
D.F. at R.T., %	2.0 max.	1.0	1.5 max.	< 0.5
Accelerated Water Absorption				
SIC, 75°C Water	4.0 max.	2.8	4.0 max.	2.7
% Change in SIC, 75°C Water				
1 - 14 days	3.5 max.	< 0.5	3.5 max.	< 0.5
7 - 14 days	1.5 max.	< 0.5	1.5 max,	< 0.5
Stability Factor after 14 Days	1.0 max.	.10	1.0 max.	.10
COLD BEND				
1 Hr. @ 3 X O.D.	- 35°C	< - 40°C	- 35°C	< - 40°C
Complies with:				
ICEA S-95-658 / NEMA WC 70	Class E-1		Class E-1 and E-2	
ICEA S-96-659 / NEMA WC 71	Class E-1		Class E-1 and E-2	
ICEA S-93-639 / NEMA WC 74	Class I		Class I and II	
ICEAS-97-682	Class I		Class I and II	
ICEA S-94-649	Class I		Class I and II	
ICEA S-75-381 / NEMA WC 58	Type I		Type I and II	