

# COMPARATIVE CHARACTERISTICS OF TYPICAL POLY VINYL CHLORIDE INSULATING AND SHEATHING MATERIALS (I)

MATERIAL	PVC TYPE 'A'	PVC TYPE 'B'	PVC TYPE 'C'	PVC TYPE 'D'	PVC TYPE 'ST1'	PVC TYPE 'ST2'	PVC TYPE 'ST3'	PVC TYPE 'ST2-FRLS' (2)	PVC TYPE 'ST2-FR' (2)	PVC TYPE 'LOW PERMITTIVITY'	PVC TYPE 'LOW TEMP'
<b>USED AS INSULATION</b>	GENERAL PURPOSE	GENERAL PURPOSE (HIGH VOLTAGE > 3.3 KV)	HEAT RESISTING	GENERAL PURPOSE FLEXIBLE						INSULATION FOR INSTRUMENTATION CABLE	INSULATION FOR VERY LOW TEMP APPLICATION
<b>USED AS SHEATH</b>					GENERAL PURPOSE	HEAT RESISTING	FLEXIBLE GENERAL PURPOSE	HEAT RESISTING LOW SMOKE, LOW HOLOGEN FIRE RESISTING	HEAT RESISTANT, HIGHLY FIRE RESISTANT		SHEATHING FOR VERY LOW TEMP APPLICATION
CONDUCTOR TEMPERATURE (°C) MAX. CONTINUOUS OPERATION	70	70	85	70	70	85/90	70	85/90	85/90	85	70
CONDUCTOR TEMPERATURE (°C) MAX. SHORT CIRCUIT	160	160	160	160	160	160	160	160	160	160	120
MATERIAL LIMITING TEMPERATURE (°C) MIN. FLEXING DUTY	-20	+15	-15	-25	-30	-15	-20	-15	-15	-15	-40
MATERIAL LIMITING TEMPERATURE (°C) MIN. FOR INSTALLATION	0	+10	0	-10	-10	0	-10	+10	+10	0	-30
<b>RESISTANT TO : WEATHER</b>											
: WATER											
: OIL											
: CHEMICAL											
: SOLVENT											
: CORONA											
: OZONE											
: ABRASION											
: FLAME											
<b>ELECTRICAL INSULATION RESISTANCE</b>											
<b>BREAKDOWN VOLTAGE</b>											
<b>A. C. LOSSES</b>											
INDIAN STANDARD	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831 (3)	IS-5831 (3)	NONE	NONE
BRITISH STANDARD	BS-6746	BS-6746	BS-6746	NONE	BS-6746	BS-6746	NONE	NONE	NONE	NONE	NONE



**VERY GOOD**

**POOR**



**GOOD**

**NOT APPLICABLE**



**FAIR**

**NOTE :**

(1) GENERAL GUIDANCE ONLY, IN SPECIFIC CASES CONSULT THE MANUFACTURER.

(2) ALSO SUITABLE FOR ST1 - FRLS & ST1-FR.

(3) FRLS & FR PROPERTIES AS PER IS-1554 (PT 1&2) 1988.