



**TECHNICAL DATA SHEET**

PVC COMPOUND FOR WIRE & CABLE AS PER IS STANDARD

PRODUCT CODE NO.			KK-I-A88	KK-I-A-92	KK-I-A-90	KK-S-A-86	KK-S-A-85	KK-S-FR-A-88	KK-FRLS-A-98
Properties	Test method	Units	Type A	Type B	Type C	ST1	ST2	ST2-FR	ST2-FRLS
Specific Gravity	ASTM D-792	Gm/cc	1.42	1.36	1.37	1.47	1.44	1.52	1.5
Tensile Strength	ASTM D-638	N/mm <sup>2</sup>	17.5	20.0	16.0	15.0	16.0	15.5	13
Elongation at break	ASTM D-638	%	220	240	220	220	225	220	200
Hardness	ASTM D-2240	Shore A	88	92	90	86	85	88	98
Shrinkage		% max.	4	4	4	4	4	4	3
Cold impact/cold bend			No cracks						
Thermal Stability		200°C min.	102	120	180	65	110	100	135
Heat Shock Test			No cracks						
Insulation Resistance		M.ohm/km	36.7	36.7	36.7	-	-	-	-
Volume Resistivity		Ohm/cms	5.5 x 10 <sup>13</sup>	4 x 10 <sup>14</sup>	8 x 10 <sup>13</sup>	-	-	-	-
Loss of mass in air oven	ASTM D-573	mg/cm <sup>2</sup>	1.40	1.22	1.00	1.70	1.50	1.60	1.50
Ageing Test in hot oven	ASTM S-573		T.S. ± 20	T.S. ± 25	T.S. ± 20	T.S. ± 20	T.S. ± 25	-	-
			E.B. ± 20	E.B. ± 20	E.B. ± 25	E.B. ± 20	E.B. ± 25	-	-
Oxygen Index	ASTM D-2863	°C	-	-	-	-	-	30	30
Temperature Index		%	-	-	-	-	-	-	250
Smoke Density Rating	ASTM D-2843	%	-	-	-	-	-	-	55
HCL Emission	IEC 754-I	%	-	-	-	-	-	-	20