

Commercial Name THERMAL CLASSIC INSULATION CLASS COLOUR RANGE	Modified Polyester 130 B Light Brown to Dark Brown 0.05mm TO 2.00 mm	Modified Polyester 155 F Light Brown to Dark Brown 0.05mm TO 2.00 mm	Polyesterimide 180 H Dark Brown(MAHAGONY) 0.315mm TO 2.00 mm	DUAL COATED WIRE PE(PEI) + PAI 200 H+ LIGHT BROWN PE+PAI-0.315MM TO 3.0MM PEI+PAI-0.315MM TO 2.0MM	DUAL COATED WIRE POLYESTER + NYLON COAT 155 F REDDISH BROWN 0.5mm to 2.0mm	POLYURETHANE SELF-SOLDERABLE WIRE 155 F LIGHT YELLOW / COPPER COLOUR 0.05 mm to 0.71 mm						
SPECIFICATION TECHNICAL DATA	I.S. 13730-34 for 1.00mm WIRE		I.S. 13730-3 for 1.00mm WIRE		I.S. 13730-8 for 1.00mm WIRE		I.S. 13730-14 for 1.00mm WIRE		as per NEMA MW 76-C for 1.00 mm Wire		I.S. 13730-20 for 0.315 mm WIRE	
MECHANICAL TEST FLEXIBILITY PEEL ABBRASION Av,N	as per I.S. 1xD Nx D=150 11.1	EFAC Spec.* 15%+1xD Nx D=170 14.0	as per I.S. 1xD Nx D=130 11.1	EFAC Spec.* 10%+1xD Nx D=160 13.0	as per I.S. 1xD Nx D=110 11.6	EFAC Spec.* 10%+1xD Nx D=155 16	AS PER I.S. 1xD Nx D=110 12.1	EFAC Spec.* 15%+1xD Nx D=170 14.0	AS PER I.S. 1xD Nx D=130 11.1	EFAC Spec.* 10%+1xD Nx D=170 13	AS PER I.S. 1xD N.A. 4.75	EFAC Spec.* 10%+1xD N.A. 6.4
THERMAL TEST HEAT SHOCK CUT THROUGH	155 C-30 min 3.35 D 240 C-2 min	175 C-30 min 3.35 D 260 C-2 min	175 C-30 min 3.35 D 240 C-2 min	200 C-30 min 3.35 D 280 C-2 min	200 C-30 min 3.35 D 300 C-2 min	220 C-30 min 3.35 D 320 C-2 min	220 C-30 min 3.35 D 300 C-2 min	250 C-30 min 2 D 340 C-2 min	175 C-30 min 2 D 265 C-2 min	200 C-30 min 2 D 290 C-2 min	175 C-30 min 2 D 200 C-2 min	200 C-30 min 2 D 290 C-2 min
CHEMICAL TEST SOLVENT RESISTANT REFRIGERENT RESIS. SOLDER TEST RESISTANT TO TRANSFORMER OIL	Good N.A. N.A. N.A.		Good N.A. N.A. N.A.		V.GOOD V.GOOD N.A. EXCELLENT		EXCELLENT EXCELLENT N.A. N.A.		Good N.A. N.A. N.A.		GOOD N.A. EXCELLENT N.A.	
ELECTRICAL TEST DIELECTRIC LOSS TANGENT D	110 TO 120		145 TO 155		180 to 195		PE+PAI-125-135 PEI+PAI-185-190		110 TO 115		135 to 145	
APPLICATION	ALL GENERAL ELECTRIC EQUIP. REQUIRING HIGH MECHANICAL PROPERTIES AUTO ELECTRICAL COMPONENTS		GENERAL PURPOSE ROTATING & STATIC ELEC. EQUIPMENT.APPLICATION WHERE TEMPERATURE RISE IS ABOVE "B" CLASS INSULATION		FHP MOTORS FOR HAND TOOLS HERMATIC APPLICATION IGNITION COILS AND ALL THERMAL "H" CLASS WINDING		FOR HERMATIC APPLICATION AND SPECIAL MOTORS		ELECTRICAL DEVICES & COMMUNICATION APPARATUS		FOR ELECTRONIC COMPONENTS MAGNET COILS, RELAYS	
SPECIAL CHARACTERISTICS	-IDEAL FOR RE-WINDERS. -IF REQUIRED, CAN BE SUPPLIED IN GOLDEN COLOUR		-BALANCED THERMAL & MECHANICAL PROPERTIES -SUITABLE FOR OEMS REQUIRES CARE IN HANDING		-BETTER THERMAL PROPERTY -BETTER FREON RESISTANT PROPERTY -GOOD TRANSFORMER OIL RESISTANCE PROPERTY		-VERY HIGH THERMAL PROPERTY -EXCELLENT FOR HERMATIC- USE VERY LOW COEFFICIENT OF FRICTION		-BALANCED MECH. &THERMAL PROPERTIES -EXCELLENT SMOOTH SURFACE HIGH SPEED WINDABILITY		-BETTER THERMAL PROPERTY -BETTER FREON RESISTANT PROPERTY -GOOD TRANSFORMER OIL RESISTANCE PROPERTY	

SWG	SIZE MM	COND TOL. IN MM.	RES. AT 20°C Ohm./Mtr	GRADE1		GRADE2		GRADE3		FOR GRADE 2 WIRE			SWG.
				(FINE COVERING) MIN. INC. MAX. O.D.	(MID. COVERING) MIN. INC. MAX. O.D.	(THICK. COVERING) MIN. INC. MAX. O.D.	ELN. IN%	B.D.V. VOLTS	SPRI BACK				
08.0	4.064	0.041	0.001329	0.060	4.194	0.088	4.228	0.122	4.265	35	2500	-	08.0
09.0	3.657	0.037	0.001641	0.059	3.780	0.086	3.812	0.118	3.849	35	2500	-	09.0
10.0	3.251	0.033	0.002077	0.057	3.366	0.084	3.397	0.115	3.435	35	2500	-	10.0
11.0	2.946	0.030	0.002508	0.045	3.029	0.084	3.072	0.127	3.112	34	2500	-	11.0
12.0	2.642	0.027	0.003118	0.043	2.742	0.081	2.775	0.123	2.803	34	2500	-	12.0
12.5	2.489	0.025	0.003551	0.042	2.578	0.080	2.615	0.121	2.653	34	2500	-	12.5
13.0	2.337	0.024	0.003985	0.042	2.415	0.079	2.455	0.119	2.493	33	5000	-	13.0
13.5	2.184	0.022	0.004600	0.041	2.262	0.078	2.301	0.117	2.338	33	5000	-	13.5
14.0	2.032	0.020	0.005271	0.041	2.108	0.077	2.147	0.116	2.184	33	5000	-	14.0
14.5	1.930	0.019	0.005891	0.040	2.005	0.076	2.044	0.114	2.080	33	5000	-	14.5
15.0	1.829	0.019	0.006505	0.040	1.903	0.075	1.941	0.113	1.977	33	5000	-	15.0
15.5	1.727	0.018	0.007357	0.039	1.800	0.074	1.838	0.112	1.877	33	5000	-	15.5
16.0	1.626	0.017	0.008232	0.039	1.698	0.073	1.735	0.110	1.770	32	5000	-	16.0
16.5	1.524	0.016	0.009448	0.038	1.595	0.072	1.631	0.108	1.666	32	5000	-	16.5
17.0	1.422	0.015	0.010760	0.038	1.492	0.071	1.528	0.107	1.562	32	5000	-	17.0
17.5	1.320	0.014	0.012590	0.036	1.388	0.069	1.423	0.103	1.456	32	5000	30	17.5
18.0	1.219	0.013	0.014650	0.035	1.285	0.067	1.318	0.100	1.350	31	5000	37	18.0
18.5	1.117	0.012	0.017580	0.035	1.182	0.066	1.215	0.099	1.247	31	5000	37	18.5
19.0	1.016	0.011	0.021080	0.034	1.080	0.065	1.113	0.098	1.144	30	5000	41	19.0
19.5	0.965	0.010	0.023560	0.034	1.028	0.064	1.060	0.096	1.091	30	5000	41	19.5
20.0	0.914	0.010	0.026050	0.034	0.976	0.063	1.008	0.095	1.038	30	5000	45	20.0
20.5	0.863	0.009	0.029460	0.033	0.924	0.061	0.955	0.093	0.984	30	5000	45	20.5
21.0	0.813	0.009	0.032930	0.032	0.872	0.060	0.902	0.090	0.931	29	5000	48	21.0
21.5	0.762	0.008	0.037790	0.031	0.819	0.058	0.848	0.087	0.876	29	5000	48	21.5
22.0	0.711	0.008	0.043050	0.030	0.766	0.056	0.795	0.085	0.822	28	4900	43	22.0
22.5	0.661	0.007	0.050220	0.028	0.712	0.053	0.739	0.080	0.765	28	4900	43	22.5
23.0	0.610	0.006	0.058480	0.027	0.659	0.050	0.684	0.075	0.708	28	4900	43	23.0
23.5	0.584	0.006	0.064340	0.026	0.632	0.048	0.656	0.073	0.680	27	4900	50	23.5
24.0	0.559	0.006	0.069650	0.025	0.605	0.047	0.629	0.071	0.652	26	4600	44	24.0
25.0	0.508	0.006	0.084340	0.025	0.554	0.047	0.578	0.071	0.601	26	4600	44	25.0
26.0	4.457	0.005	0.104200	0.024	0.501	0.045	0.523	0.067	0.544	25	4600	47	26.0
27.0	0.417	0.005	0.125200	0.022	0.458	0.042	0.480	0.064	0.500	25	4400	48	27.0
28.0	0.376	0.005	0.153900	0.021	0.417	0.040	0.435	0.060	0.454	24	4400	50	28.0
29.0	0.345	0.005	0.182900	0.020	0.382	0.038	0.401	0.057	0.418	23	4300	53	29.0
30.0	0.315	0.004	0.219300	0.019	0.349	0.035	0.367	0.053	0.384	23	4100	55	30.0
31.0	0.295	0.004	0.250100	0.019	0.329	0.035	0.347	0.053	0.364	23	4100	55	31.0
32.0	0.274	0.004	0.289900	0.018	0.306	0.033	0.323	0.050	0.339	22	4000	53	32.0
33.0	0.254	0.004	0.337400	0.018	0.286	0.033	0.303	0.050	0.319	22	4000	53	33.0
34.0	0.234	0.004	0.397400	0.017	0.265	0.032	0.281	0.048	0.296	22	3900	56	34.0
35.0	0.213	0.003	0.479800	0.015	0.241	0.029	0.255	0.048	0.269	21	3900	59	35.0
36.0	0.193	0.003	0.584200	0.014	0.219	0.027	0.232	0.039	0.245	22	3500	62	36.0
37.0	0.173	0.003	0.727100	0.013	0.197	0.025	0.210	0.036	0.222	20	3300	65	37.0
38.0	0.152	0.003	0.941800	0.012	0.174	0.023	0.186	0.033	0.197	19	3200	67	38.0
39.0	0.132	0.003	1.249600	0.011	0.152	0.021	0.162	0.030	0.171	18	3000	67	39.0
40.0	0.122	0.003	1.462300	0.010	0.141	0.019	0.151	0.028	0.160	17	2800	70	40.0
41.0	0.112	0.003	1.735400	0.009	0.119	0.017	0.139	0.026	0.147	17	2700	73	41.0
42.0	0.102	0.003	2.092300	0.009	0.119	0.017	0.128	0.026	0.136	17	2700	73	42.0
43.0	0.091	0.003	2.629800	0.008	0.107	0.016	0.115	0.023	0.122	16	950	73	43.0
44.0	0.081	0.003	3.319200	0.008	0.096	0.015	0.103	0.022	0.110	15	900	77	44.0
45.0	0.071	0.003	4.316700	0.007	0.084	0.012	0.091	0.018	0.097	13	700	-	45.0
46.0	0.061	0.003	5.854100	0.007	0.074	0.012	0.081	-	-	12	700	-	46.0
47.0	0.051	0.003	8.379400	0.005	0.062	0.010	0.068	-	-	10	650	-	47.0
48.0	0.041	0.003	12.950000	0.004	0.050	0.008	0.056	-	-	-	550	-	48.0
49.0	0.030	0.003	24.390000	0.003	0.038	0.005	0.041	-	-	-	-	-	49.0
50.0	0.025	0.003	34.026000	0.003	0.031	0.004	0.034	-	-	-	-	-	50.0