



# PVC THERMOPLASTIC FOR CABLES

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A complete and high quality range of PVC based compounds for cables. On request for high or very low operating temperatures, oil and hydrocarbon resistant, flame retardant and low smoke, UV, rodent or termite resistant.

# PVC THERMOPLASTIC FOR CABLES

Sheathing	Classification					Density ISO 1183 g/cm <sup>3</sup>	Hardness ISO 868 Shore A	Tensile Strength ISO 527 N/mm <sup>2</sup>	Elongation at Break ISO 527 %	Oxygen Index ISO 4589 %	Thermal Stability CEI 20-34/3-2 Minutes
	EN 50363-0	EN 50363-4-1	EN 50290-2-22	VDE 0207	Others						

## General purposes

<b>CKL 59/OP</b>	Sheathing music instruments					1,36	59	≥ 11	≥ 300		≥60
<b>CKL 68/K</b>	Opaque sheath with high mech. properties		TM2 TM4	TM52		1,33	68	≥ 10	≥ 300		≥50
<b>CKL 01863</b>	Low temperature cables				GOST 5960-72 0-50	1,25	69	≥ 16	≥ 360		≥100
<b>CKL 80/R</b>	Mineral oil resistant sheathing		TM5	TM55		1,35	80	≥ 16	≥ 300		≥60
<b>CKL 76/V</b>	High extrusion speed		TM1 TM2	TM51 TM52		1,47	76	≥ 14	≥ 280		≥50
<b>CKL 80/16</b>	General purposes		TM2	TM52	YM1 YM2	1,48	80	≥ 12	≥ 250		≥50
<b>CKL 83/5</b>	Sheathing Coaxial TV Cable			TM51		1,38	83	≥ 17	≥ 350		≥90
<b>CKL 89</b>	General purposes	RZ			IEC 60502 ST2 BS 7655 type9	1,52	89	≥ 13	≥250		≥50
<b>CKL 90/6</b>	General purposes				HD 602 DMV5 DMV6	1,5	90	≥ 13,5	≥240		≥120
<b>CKL 91/T-UV</b>	Anti rodent and termites (anti UV)				IEC 60502 ST2 BS 7655 type9	1,53	90	≥ 13	≥240		≥50
<b>CKL 90/1</b>	General purposes				IEC 60502 ST2 BS 7655 type9	1,55	91	≥ 12	≥ 200		≥50

## Flame-Retardant Sheathing

<b>GK 74/R2-UV</b>	Mineral oil resistant, UV resistant and low temperature sheathing (80°C)		TM5		UL 1581	1,31	73	≥ 14	≥ 300	27,5	≥40
<b>GK 77/R1</b>	Mineral oil resistant sheathing (90°)		TM5	TM55	UL 1581	1,34	77	≥ 18	≥ 320	29	≥80
<b>GK 80/R</b>	Mineral oil resistant sheathing		TM5		CNOMO E0340.150N	1,39	80	≥ 16	≥ 300	26,5	≥60
<b>GK 81/1</b>	General purposes		TM2			1,55	80	≥ 12,5	≥ 280	27,5	≥50
<b>GK 87/10</b>	General purposes	RZ	TM1			1,56	86	≥ 14	≥ 240	30	≥35
<b>GK 87/18</b>	Suggested for CPR applications	RZ R16	TM1		HD 602 DMV5	1,51	87	≥ 14,5	≥ 270	33	≥120
<b>GK 86/8</b>	Aliphatic hydrocarbons resistant Heavy metals free				NF M 87-202	1,41	87	≥ 16,5	≥ 300	28,5	≥50
<b>GK 0185/R</b>	Oil and hydrocarbon resist. Sheath (90°)				UIC 895 OR	1,44	88	≥ 16	≥ 300	28,5	≥50
<b>GK 89/R</b>	Hydrocarbons resistant	RZ			ENI 0181.00	1,41	89	≥ 17	≥ 240	32	≥35
<b>GK 88/3</b>	Heavy metal free cables	RZ				1,51	89	≥ 15	≥ 240	27,5	≥50
<b>GK 89/13</b>	Suggested for CPR applications	RZ R16				1,56	89	≥ 15	≥ 220	36,0	≥35
<b>GK 01088/LS</b>	FRLS cables (Hcl ≤17%)	RZ	TM1			1,57	90	≥ 14	≥ 210	30	≥40
<b>HGKA 02092/LS</b>	Suggested for plenum applications				UL1581	1,6	55 ShD	≥ 16	≥ 170	53	≥60

## Sheathing for high temperatures

<b>HGK 80/2</b>	Operating temperature 90°C				UL 1581	1,45	81	≥ 14	≥ 250	25	≥80
<b>HGK 83</b>	Operating temperature 90°C		TM3			1,38	83	≥ 13	≥ 250		≥300
<b>HGK 83/1</b>	Operating temperature 105°C				UL 1581	1,45	83	≥ 12	≥ 290		≥180
<b>HGKA 78</b>	Operating temperature 90°C				UL 1581	1,38	80	≥ 15	≥ 290	27	≥140
<b>HGKA 79/R</b>	Sheathing oil resistant (80°C)		TM5	TM55	UL 1581	1,39	79	≥ 14	≥ 270	25	≥70
<b>HGKA 83</b>	Operating temperature 90°C		TM3			1,42	83	≥ 15	≥ 280	27	≥300
<b>HGKA 88/1</b>	Sheathing hydrocarbon resistant (105°C)		TM5	TM55	NFM 87-202 UL1581	1,56	88	≥ 15	≥ 330	30	



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Insulation	Classification					Density ISO 1183 g/cm <sup>3</sup>	Hardness ISO 868 Shore A	Tensile Strength ISO 527 N/mm <sup>2</sup>	Elongation at Break ISO 527 %	Oxygen Index ISO 4589 %	Thermal Stability CEI 20-34/3-2 Minutes	Vol. Res. @ 23°C ASTM D 257 Ω.cm
	EN 50363-0	EN 50363-3	EN 50290-2-21	VDE 0207	Others							

## General purposes

<b>FK 76</b>	Insulation low temperatures			Y11 Y12		1,32	76	≥ 15	≥ 320		≥60	
<b>FK 0656/1</b>	Insulation low temperatures				GOST 5960-72 N40-13, 10-40	1,26	80	≥ 17,5	≥ 390		≥60	
<b>FK 86/10</b>	General purposes		T11	T151		1,49	86	≥ 15	≥ 240		≥50	5 x 10 <sup>13</sup>
<b>FK 85/3</b>	Low temperature insulation		T14			1,27	86	≥ 18	≥ 300		≥50	
<b>FK 0879</b>	General purposes			Y14 YM5		1,48	90	≥ 15	≥ 270		≥120	
<b>FK 90/24</b>	General purposes				HD 602 DIV4	1,53	90	≥ 14	≥ 280		≥120	3 x 10 <sup>13</sup>
<b>FK 92/V</b>	High extrusion speed		T11	T151		1,50	92	≥ 16	≥ 260		≥60	3 x 10 <sup>13</sup>
<b>FKT 92/4</b>	Telephone Cables		T11	T151		1,38	92	≥ 22	≥ 300		≥45	1,5 x 10 <sup>14</sup>
<b>FKT 96</b>	General purposes			Y13		1,37	96	≥ 22	≥ 200		≥150	2 x 10 <sup>15</sup>

## Flame-retardant Insulation

<b>FKA 88/1</b>	Insulation low temperatures	R2			IEC 60332-3	1,40	88	≥ 18	≥ 280	29	≥70	1 x 10 <sup>14</sup>
<b>FKA 91/8</b>	General purposes	R2			IEC 60332-3	1,54	91	≥ 16	≥ 260	29	≥50	5 x 10 <sup>14</sup>
<b>FKA 93/3</b>	Heavy metal free cables		T11	T151		1,55	93	≥ 16	≥ 200	29	≥50	
<b>FKA 94/5</b>	Suggested for CPR applications	R2 S17				1,51	94	≥20	≥ 230	28	≥60	2 x 10 <sup>15</sup>
<b>FKA 0753</b>	General purposes		T11	T151	TELECOM 1341	1,51	96	≥ 19	≥ 230	30	≥90	1 x 10 <sup>15</sup>

## Insulation for high temperatures

<b>KL 82/3</b>	Operating temperature 105°C Oil resistant Flame retardant				UL 1581	1,45	82	≥ 17	≥ 340	30	≥320	3 x 10 <sup>14</sup>
<b>KL 84/1</b>	General purposes flame retardant			YM4		1,35	84	≥ 20	≥ 290	27	≥450	2 x 10 <sup>14</sup>
<b>KL 85</b>	Operating temperature 105°C				FIAT 9.91220 Allegato 27	1,30	85	≥ 18	≥ 340		≥200	
<b>KL 85/3</b>	Operating temperature 105°C				UL 1063 MTW	1,45	87	≥ 16	≥ 280	28	≥180	1 x 10 <sup>14</sup>
<b>KL 90/2</b>	Operating temperature 105°C				Style 1015	1,40	90	≥ 18	≥ 280	27,5	≥200	1 x 10 <sup>14</sup>
<b>KL 01589</b>	General purposes			Y18		1,43	91	≥ 18	≥ 280		≥600	6 x 10 <sup>14</sup>
<b>KL 91/7</b>	Operating temperature 90°C			Y17		1,47	91	15,5	220		≥130	2 x 10 <sup>14</sup>
<b>KL 93/3</b>	Operating temperature 90°C		T13	T153		1,44	92	≥ 16	≥ 300		≥300	1 x 10 <sup>14</sup>
<b>KL 95</b>	Automotive cables low thickness				ISO 6722-1 Class B	1,31	93	≥ 20	≥ 240		≥220	1 x 10 <sup>14</sup>
<b>KL 95/7</b>	Operating temperature 105°C				IEC 60227 PVC/E	1,50	95	≥ 21	≥ 270		≥200	4 x 10 <sup>14</sup>
<b>KL 95/1</b>	Automotive cables low thickness				VW 60306 Classe B	1,34	95	≥ 20	≥ 280		≥200	
<b>KL 95/3</b>	Operating temperature 90°C				BS 7655:99 Tipo 5	1,31	95	≥ 23	≥ 260		≥160	1 x 10 <sup>15</sup>
<b>KL 01990</b>	Automotive cables 125°C				ISO 6722-1 class C	1,31	95	≥ 21	≥ 270		≥400	3 x 10 <sup>14</sup>
<b>KL 101/2</b>	Operating temperature 80°C				UL Style 1061	1,34	49 Sh.D	≥ 24	≥ 240	30	≥170	1 x 10 <sup>15</sup>
<b>KL 52/V</b>	Low wall thickness		T13	T153		1,50	52 Sh.D	≥ 24	≥ 200		≥300	7 x 10 <sup>14</sup>

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	Classification			Density	Hardness	Tensile Strength	Elongation at Break	Oxygen Index	Thermal Stability
	EN 50363	EN 50290	Others	ISO 1183 g/cm <sup>3</sup>	ISO 868 Shore A	ISO 527 N/mm <sup>2</sup>	ISO 527 %	ISO 4589 %	CEI 20-34/3-2 Minutes

## Transparent grades

<b>KLT 87/UV</b>	Transparent Insulation (105°C) UV resistant		UL 1581 Classe 43	1,23	87	≥ 19	≥ 330		≥130
<b>KLT 92/1</b>	Transparent Insulation (90°C)	TI3	TI53	1,25	92	≥ 20	≥ 300		≥280
<b>PH 80/8-UV</b>	Transparent Sheathing	TM2	TM52	1,22	70	≥ 18	≥ 370		≥40
<b>PH 90/UV</b>	Transparent sheathing Anti-UV	TM1	TM51	1,24	90	≥ 20	≥ 320		≥35
<b>HGKT 84/1</b>	Transparent sheathing (90°C)	TM3		1,24	84	≥ 18	≥ 320		≥280

## Bedding

<b>CRK 84</b>	General purpose			1,82	88	≥ 6	≥ 120		
<b>CRKA 91/2</b>	Flame retardant, suggested for CPR applications			1,94	91	≥ 5	≥ 150	43	≥10
<b>CRKA 90/1</b>	Flame Retardant, low migration			2,04	90	≥ 4	≥ 130	40	≥30

## Plugs

<b>GSK 78/3</b>	Plugs injection moulding			1,43	78	≥ 12	≥ 200		≥60
<b>GS 76/TN-UV</b>	Transparent Plugs			1,21	76	≥ 15	≥ 300		≥50

## Notes

The values shown in these tables are typical values obtained from measurements made on extruded samples or pressed plates. The information shown in this document should be considered given simply as a guide for the use of the interested product. The technical information shown derive from our laboratory tests and are indicative and not strictly binding. Fainplast Sri so will never be considered responsible for the results obtained by using its products in other production processes.

## Storage

These compounds must be stored at ambient temperature (not exceeding 30°C) in closed and unbroken packaging, in order to avoid exposure to sunlight and water absorption.

## Packaging

Available in 25Kg plastic bags, big bags, carton oktabins or in silos truck.

