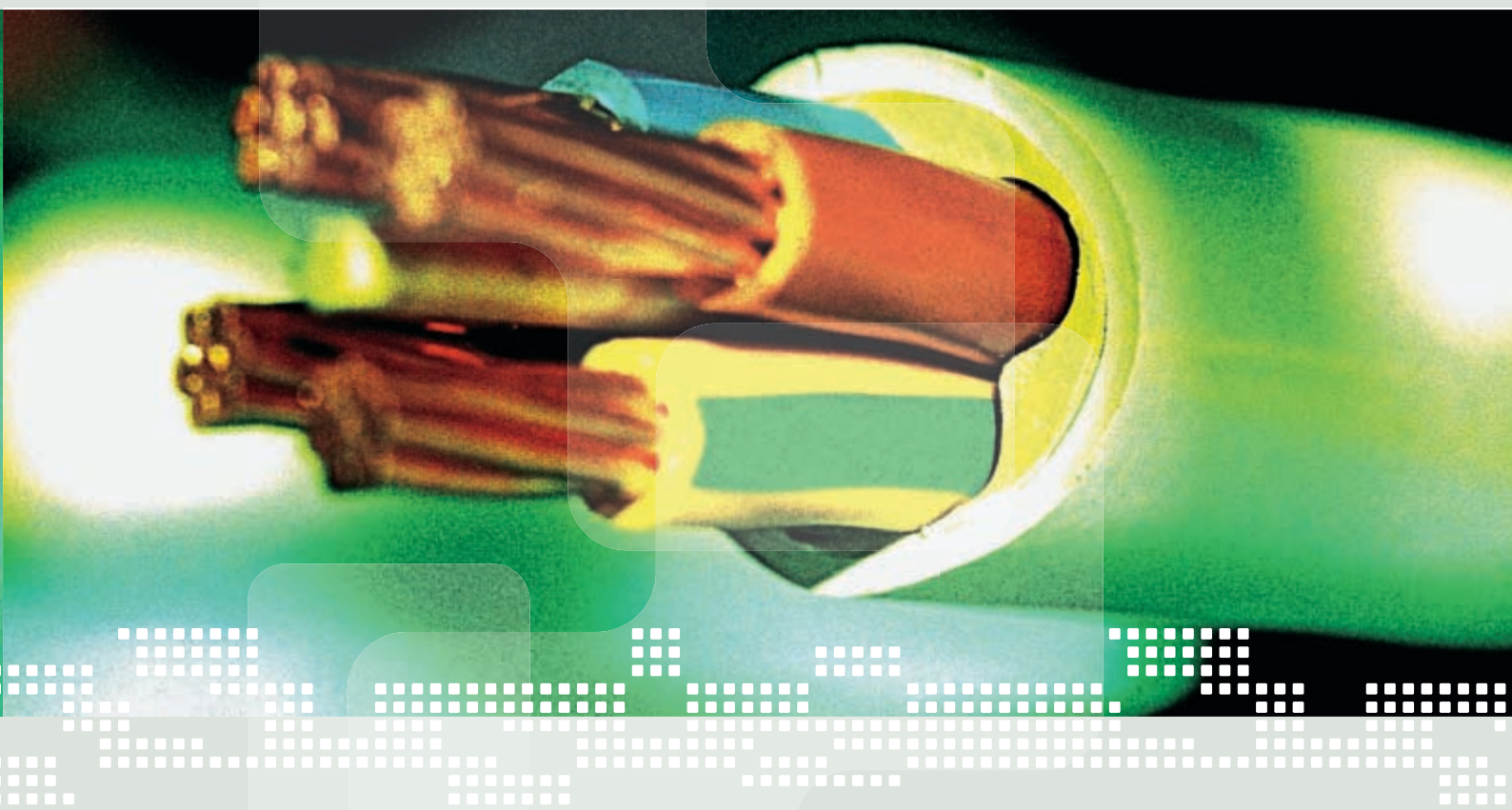


Melos® Cable Compounds



Mecoline – For Cables with a Future
Mecoline – Für Kabel mit Zukunft

Cable Compounds: Insulation | Bedding | Sheathing



Insulation & Sheathing Compounds

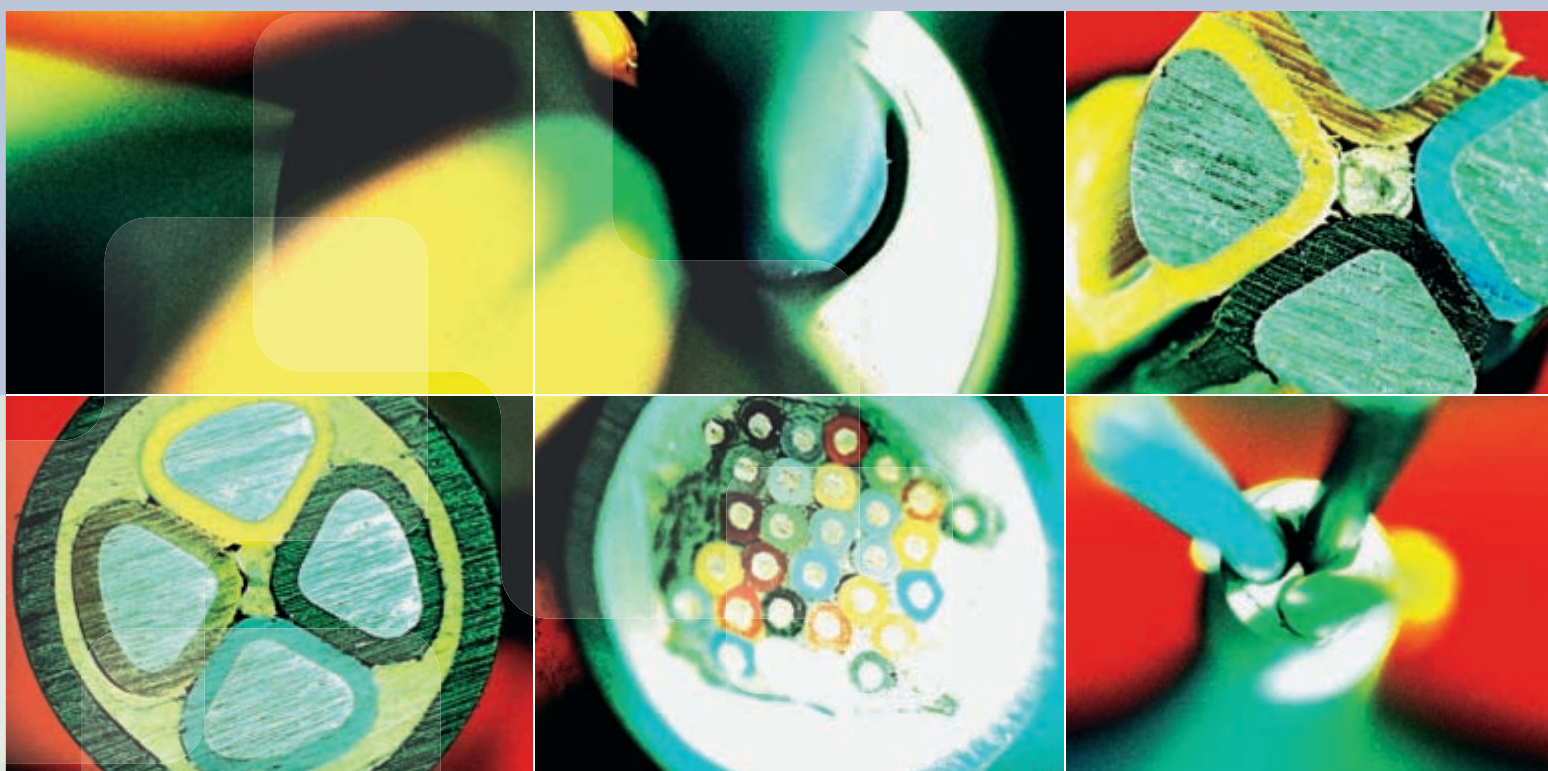
Name	max. operating temperature [°C]	Hardness Shore A or D	Tensile strength [N/mm ²]	Elongation at break [%]	LOI [%]	Short description
Thermoplastic compounds flame retardant halogen free low smoke						
Mecoline S 1001 F	90	55 D	>13,0	>200	36	Sheathing, good abrasion resistance Possible applications: VDE 0207 part 24 HM2 & HM4, BS 7655 part 6.1 LTS1 to LTS4, IEC 60092-359 SHF1
Mecoline S 1002 F	90	55 D	>11,0	>175	37	Sheathing Possible applications: VDE 0207 part 24 HM2 & HM4, BS 7655 part 6.1 LTS1 to LTS4, IEC 60092-359 SHF1
Mecoline S 1003 F	90	53 D	>11,5	>200	40	Sheathing Possible applications: VDE 0207 part 24 HM2 & HM4, BS 7655 part 6.1 LTS1 to LTS4, IEC 60092-359 SHF1
Mecoline S 1004 F	90	45 D	>10,0	>160	45	Sheathing, excellent flame retardant properties Possible applications: VDE 0207 part 24 HM2 & HM4, BS 7655 part 6.1 LTS1 to LTS4, IEC 60092-359 SHF1
Mecoline S 1005 F	90	57 D	>10,0	>225	37	Sheathing, excellent media resistance Possible applications: VDE 0207 part 24 HM2 & HM4, BS 7655 part 6.1 LTS1 to LTS4, IEC 60092-359 SHF1
Irradiation crosslinkable Compounds flame retardant halogen free low smoke [Values measured after crosslinking at 80 kGy]						
Mecoline I 1201 F	120	52 D	>14,5	>175	30	Insulation & sheathing, good media resistance, Possible applications: VDE 0207 part 23 HJ1 & part 24 HM1 & HM3, VDE 0250 part 503 HI3, IEC 60092-359 SHF2
Mecoline S 1202 F	120	40 D	>11,0	>200	30	Sheathing, excellent media resistance, Possible applications: VDE 0207 part 24 HM1 & HM3, IEC 60092-359 SHF2
Mecoline S 1203 F	105	50 D	>14,0	>175	34	Sheathing, excellent media resistance, for rolling stock & Off-shore Possible applications: VDE 0207 part 24 HM1 & HM3, EN 50264 EM 104, IEC 60092-359 SHF 2
Mecoline S 1204 F	90	49 D	>10,0	>160	33	Sheathing, good media resistance, for Off-Shore & Shipbuilding, Possible applications: VDE 0207 part 24 HM1 & HM3, BS 7655 part 2.6 SW4, IEC 60092-359 SHF 2

We guarantee RoHS-conformity for our materials. If you need further information please contact us.

Name	max. operating temperature [°C]	Hardness Shore A or D	Tensile strength [N/mm ²]	Elongation at break [%]	LOI [%]	Short description
Peroxide crosslinkable Compounds						
Mecoline I 1601 F	90	93 A	>10,0	>150	36	Insulation based on EVA, HFFR Possible applications: VDE 0282 part 1 EI5
Mecoline IS 1602	110	82 A	>10,0	>450	-	Insulation & sheathing based on EVA, for electrical applications with low mechanical stress Possible applications: VDE 0282 part 1 EI3 and EM4
Mecoline IS 1603	90	72 A	>10,0	>450	-	Insulation & sheathing based on EPR Possible applications: VDE 0207 part 20 EI4, 3GI3; VDE 0207 part 21 EM3, 3GM1, 3GM2; VDE 0282 part 1 EI4, EI7, EM3, EM6
Mecoline IS 1604	90	90 A	>12,5	>500	-	Insulation & sheathing based on EPR Possible applications: VDE 0207 part 20 EI4, 3GI3; VDE 0207 part 21 EM3, 3GM1, 3GM2; VDE 0282 part 1 EI4, EI7, EM3, EM6
Mecoline S 5605 F	90	75 A	>18,0	>600	31	Sheathing based on CPE, for heavy duty environmental & mechanical conditions, excellent media resistance Possible applications: VDE 0207 part 21 5GM5; VDE 0282 part1 EM7, BS 7655 part 2.6 SW1
Mecoline S 5606 F	90	70 A	>15,0	>600	33	Sheathing based on CPE, for busses and railway vehicles Possible applications: VDE 0207 part 21 EM2, 5GM3; VDE 0282 part 1 EM2; BS 7655 part 2.3 RS3 & part 2.6 SW1
Mecoline S 5607	90	88 A	>11,5	>300	-	Sheathing based on CSM, for high mechanical stress in combination with frequent movement Possible applications: VDE 0207 part 21 5GM3; VDE 0282 part 1 EM5, EM7
Thermoplastic compounds based on PVC						
Mecoline I 5701	70	91 A	>16,0	>250	-	Insulation Possible applications: VDE 0207 part 4 Y14
Mecoline S 5702 F	90	90 A	>15,0	>300	30	Sheathing based on PVC & NBR with excellent media resistance Possible applications: VDE 0207 part 5 YM1, YM2, YM3, YM4

Bedding Compounds

Name	Mooney Viscosity	Hardness Shore A or D	Drumable	Tensile strength [N/mm ²]	Elongation at break [%]	LOI [%]	Remarks
FM 1239	30	70 A	y	-	-	55	Designed for the use with HFFR compounds, 2 step process
FM 1248	30	80 A	n	-	-	45	Designed for the use with HFFR compounds, only tandem process
FM 361	42	75 A	n	-	-	80	Excellent flame retardant properties
FM 942	25	75 A	y	>0,5	>20	-	Designed for the use with XLPE & PVC, temperature range -40 to +60°C
FM 1352	35	40 D	y	-	-	34	For passing the functionality test acc. VDE 472-814
FM 1600/6	45	87 A	y	-	-	55	For passing the functionality test acc. VDE 472-814, possible replacement for Mica tapes, char forming compound
FM 1604/2	30	38 D	y	>4,0	>100	30	Excellent mechanical properties
FM 1922/1	45	45 A	y	-	>250	-	BS 7870
FM 1773	35	73 A	n	-	-	45	Designed for XLPE, Sioplas & Monosil





Mecoline Cable Compounds – For Cables with a Future Mecoline Cable Compounds – Für Kabel mit Zukunft

Melos develops formulations for special compounds designed for individual areas of application. Our Mecoline cable compounds are customised to fulfil customer requirements either for specific cable constructions or for specialised extrusion lines. For many years, Melos's cable compounds have been providing a valuable service in the widest possible range of cable constructions all over the world.

These include

- Sheathing and Isolation compounds
 - Thermoplastic
 - Crosslinkable by Peroxide
 - Crosslinkable by Irradiation
- Bedding/Filling Compounds
- Special compounds for individual requirements

Mecoline Cable Compounds are manufactured on specialised production lines. Economic production methods and short lead times guarantee prompt and highly flexible completion of orders.

All our raw materials comply with the high standards of the cable industry, and our production processes are gentle and environment-friendly. Melos utilises quality assurance processes compliant with DIN ISO 9001:2000.

Melos's research and development teams employ the very latest raw materials and processes for individual areas of application.

Melos entwickelt Rezepturen für Spezial compounds mit individuellen Anwendungsbereichen. Je nach Anforderung werden unsere Mecoline Cable Compounds kundenspezifisch gemäß der Kabelkonstruktion oder Besonderheiten der Kabelextrusionslinie eingestellt. Seit Jahren leisten von Melos hergestellte Cable Compounds wertvolle Dienste in den verschiedensten Kabelkonstruktionen weltweit. Dazu zählen:

- Mantel- und Isolationsmischungen
 - Thermoplastisch
 - Peroxidisch vernetzbar
 - Strahlenvernetzbar
- Füllmischungen
- Sondercompounds nach individuellen Anforderungen

Die Herstellung unserer Mecoline Cable Compounds erfolgt auf spezialisierten Fertigungsanlagen. Wirtschaftliche Produktionsmethoden und kurze Lieferzeiten garantieren eine zügige Abwicklung und ein hohes Maß an Flexibilität. Alle verwendeten Rohstoffe genügen den hohen Standards der Kabelindustrie. Die Aufbereitung erfolgt schonend und umweltgerecht. Für Melos die Norm: Qualitätssicherung nach DIN ISO 9001:2000.

Forschung und Entwicklung aus dem Hause Melos nutzt modernste Rohstoffe und Verfahren für individuelle Anwendungsbereiche.

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Customer Solutions

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