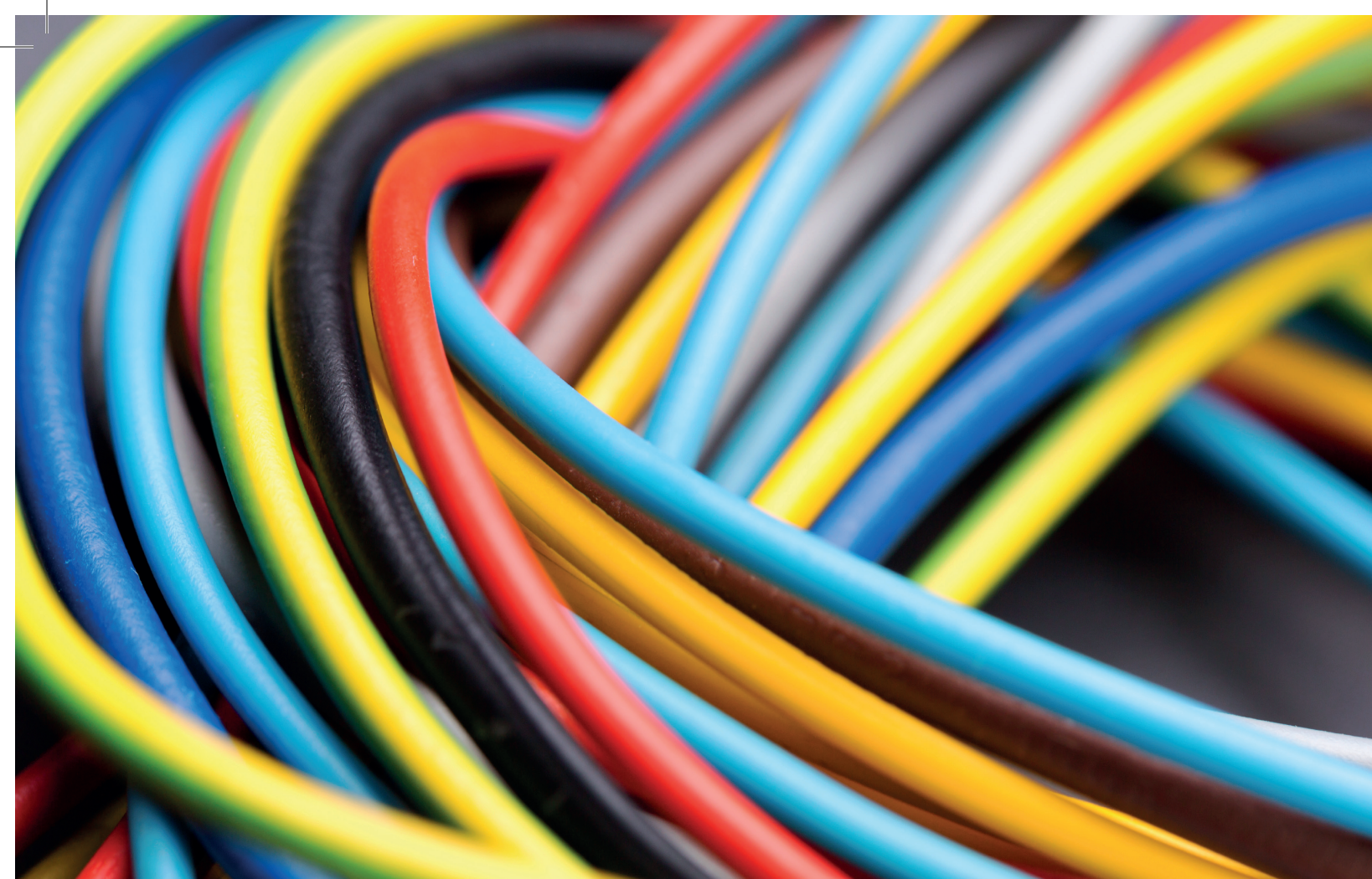
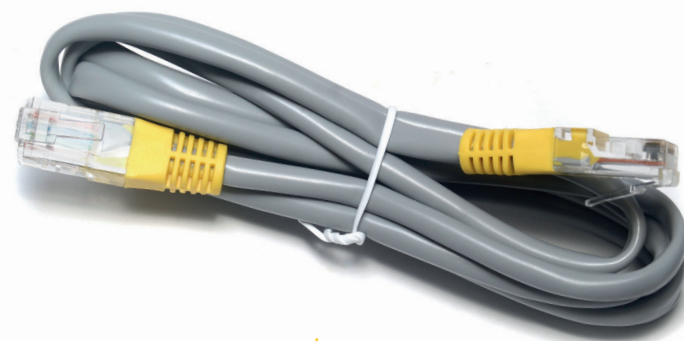




PRODUCT RANGE



+ SILICONE COMPOUNDS

- STANDARD GRADES FOR LOW AND MEDIUM VOLTAGE INSULATION
- ASH COHESION FOR FIRE RESISTANT CABLES
- LOW SMOKE AND LOW TOXICITY
- AUTOMOTIVE CABLES
- ROLLING STOCK APPLICATION
- **NEW TECHNOLOGY:** COLORING IN EXTRUSION

+ THERMOPLASTIC COMPOUNDS

- HFFR COMPOUND

+ COLOR MASTERBATCHES

- PVC BASED
- SILICONE BASED
- POLYOLEFINE BASED



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INDUSTRY

POWER MANAGEMENT

+ WIRE AND CABLE COMPOUND SOLUTIONS



+ SILICONE COMPOUNDS

WIRE AND CABLE SILICONE COMPOUND SOLUTIONS						
TYPE	FEATURES	STANDARDS	UNITS	GENERAL PURPOSE	GENERAL PURPOSE	GENERAL PURPOSE
General	Code			MV30	MV80	MV130
	Appearance			off-white [§]	off-white [§]	off-white [§]
	Hardness	ASTM D2240	ShA	65	75	75
	Specific gravity	ASTM D1817	g cm ⁻³	1,34	1,50	1,64
Mechanical non-post cured [§]	Tensile strength	DIN 53504 S2	MPa	9	7,3	4,5
	Elongation at break	DIN 53504 S2	%	400	270	240
	Tear strength	ASTM D624B	N mm ⁻¹	16	15	14
After aging in hot air 10 d @ 200 °C	Hardness increase	ASTM D2240	ShA	66	76	79
	Tensile strength	DIN 53504 S2	MPa	5,2	4,7	5,2
	Elongation at break	DIN 53504 S2	%	180	100	85
Dielectric	Resistivity	ASTM D257	Ω cm	2.7 10 ¹⁵	16 10 ¹⁵	4.8 10 ¹⁴
	Permittivity (300kHz)	ASTM 150-81		3,2	3,3	3,5
	tan δ (300 kHz)	ASTM 150-81		0.0014	0.0023	0.0037
Fire resistance	UL94 rating			HB	HB	HB
	LOI	ASTM 2863	%	26	29	35

§ Curing conditions: 10 min @ 120 °C with 2,4-dichlorobenzoyl peroxide (DCLBP) as catalyst
§ Available in any colour on request

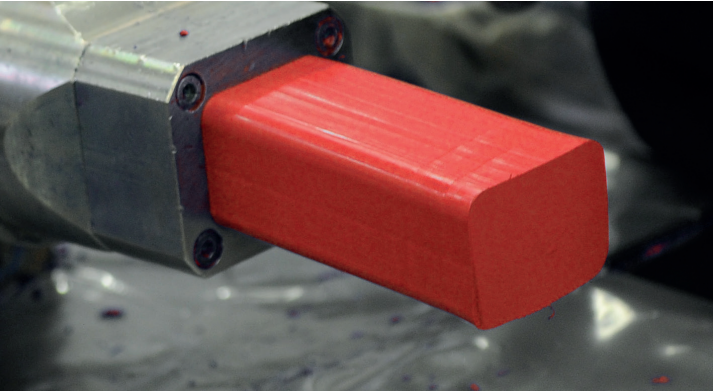


+ COLOR MASTERBATCHES

MESGO's offer for the power management industry includes PVC Color Masterbatches (based on concentrates of pigments, dyes and various types of additives) produced in granules and micro-granules, and compact products (BC) on a silicone base. Color matching, both on samples and on RAL/PANTONE/NCS imitation, sample testing (0,300 to 1 kg) to color 100 kg of polymer with a masterbatch used at 1%.

PVC COLOR RANGE					
MBPV ARANCIO	W484	●	MBPV NERO	N671	●
MBPV BIANCO	T492	○	MBPV ROSSO	M676	●
MBPV BLU	L756	●	MBPV ROSSO	M528	●
MBPV BLU	L1145	●	MBPV VERDE	K549	●
MBPV GIALLO	H895	●	MBPV VERDE	K569	●
MBPV GRIGIO	Z886	●	MBPV VIOLA	B270	●
MBPV MARRONE	R287	●			

SILICONE COLOR RANGE					
BC BLU	L1137	●	BC VERDE	K68	●
BC BLU	L1040	●	BC GRIGIO	Z395	●
BC GIALLO	H140	●	BC ROSSO	M1507	●
BC GIALLO	H80	●	BC ROSSO	M66	●
BC ARANCIO	W70	●	BC MARRONE	R80	●
BC BIANCO	T57	○	BC VIOLA	B54	●
BC VERDE	K174	●	BC NERO	N522	●



WIRE AND CABLE SILICONE COMPOUND SOLUTIONS: ASH COHESION AND LOW SMOKE TOXICITY							
TYPE	FEATURES	STANDARDS	UNITS	ASH COHESION LOW DENSITY	ASH COHESION HIGH DENSITY	ASH COHESION COST EFFECTIVE	LOW TOXICITY
General	Code			MG2811NE70	MG9259NE70	MG3513NE70	MG9087NE80
	Appearance			off-white [§]	off-white [§]	off-white [§]	off-white [§]
	Hardness	ASTM D2240	ShA	70 ± 5	70 ± 5	70 ± 5	80 ± 5
	Specific gravity	ASTM D1817	g cm ⁻³	1,20 ± 0,03	1,37 ± 0,03	1,50 ± 0,03	1,65 ± 0,03
Mechanical non-post cured [§]	Tensile strength	DIN 53504 S2	MPa	6	8	6	5,8
	Elongation at break	DIN 53504 S2	%	310	350	320	180
	Tear strength	ASTM D624B	N mm ⁻¹	16	20	16	12
After aging in hot air 10 d @ 200 °C	Hardness increase	ASTM D2240	ShA	73	77	77	84
	Tensile strength	DIN 53504 S2	MPa	5,2	6,3	6,6	6,9
	Elongation at break	DIN 53504 S2	%	140	180	150	124
Dielectric	Resistivity	ASTM D257	Ω cm	4.5 10 ¹⁵	1 10 ¹⁵	3 10 ¹⁵	1.5 10 ¹⁴
	Permittivity (300kHz)	ASTM 150-81		3,2	3,4	3,45	5,1
	tan δ (300 kHz)	ASTM 150-81		0.006	0.0021	0.0028	0.004
Fire resistance	UL94 rating			HB	V1	V1	V0
	LOI	ASTM 2863	%	28	30	31	42
Features of ashes (3h @ 1000 °C)	Flexural module	Internal ^{&}	MPa	20	15	8	nd

§ Curing conditions: 10 min @ 120 °C with 2,4-dichlorobenzoyl peroxide (DCLBP) as catalyst
§ Available in any colour on request
& Internal procedure; three-point bending measurement on 10 x 10 x 0,2 cm specimen of ashes

+ THERMOPLASTIC COMPOUNDS

A complete range of halogen-free, flame resistant and low-smoke-emission compounds for insulated cables installed in specific environments where low flammability and absence of toxic, black smokes is extremely essential.

COMMERCIAL NAME	U/M UNIT	ALTAIR F1M12FR00	ALTAIR F1M12FR01	ALTAIR F1M12FR02	ALTAIR F1M12FR03	ALTAIR F1M12FR04
FLEXURAL STRENGTH	Mpa	13	12	10	10	10
ELONGATION	%	190	180	160	180	140
LOI	%	38	37	45	35	30
MFI 150°C/21,6KG	gr/10 min	6	10	7	15	8
DENSITY	gr/cm3	1,48	1,49	1,56	1,52	1,54

