



Special bedding compound.

■ Compound class

Bedding compound

■ Application examples: Insulation

2 XI 1 XLPE
2 YI 1 – 5 PE
9 YI 1 PP

■ Application examples: Sheathing

HM 4 – 2 HFFR
2 YM 3 HDPE
... PUR / TPU

■ Based on

TPE-O

acc. DIN / VDE 0207 part 22
acc. DIN / VDE 0207 part 2
acc. DIN / VDE 0207 part 7

acc. DIN / VDE 0207 part 24
acc. DIN / VDE 0207 part 3

■ Characteristics

Halogen-free flame retardant

■ Typical applications

Bedding compound for cables and wire with max. 90°C operating temperature at conductor.



Home



City



Industry

■ Features



For 2-step process (coilable)



Flame retardant



Halogen-free

PHYSICAL PROPERTIES

■ Physical properties

	Unit	Typical value	Test method
Density*	g/cm ³	1,60	DIN EN ISO 1183-1A
Hardness*	Shore D	35	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	-	35	DIN ISO 289-1

MECHANICAL PROPERTIES

■ Thermoplastic *

	Unit	Typical value	Test method
Tensile strength	N/mm ²	≥ 4,0	IEC 60811-501
Elongation at break	%	≥ 300	IEC 60811-501

ELECTRICAL PROPERTIES *

■ Major electrical properties

	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	≥ 10¹⁰	VDE 0472 Part 503

Surface resistivity (at 23°C)	Ω	≥ 10 ⁹	VDE 0472 Part 502
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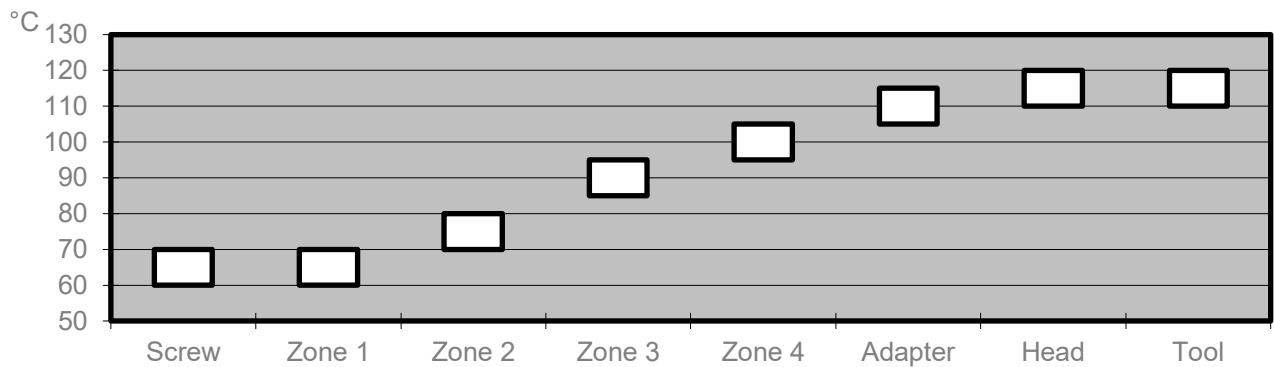
BURNING PROPERTIES *

■ Main burning properties	Unit	Typical value	Test method
LOI	%	34	ASTM D 2863 A
■ Acid gas emission	Unit	Typical value	Test method
pH (min.)	-	≥ 4,3	IEC 60754-2
Conductivity (max.)	μS cm-1	≤ 100	IEC 60754-2

* pressed plaques, 100°C / 5 min.

PROCESSING GUIDE

<ul style="list-style-type: none"> ■ Extruder type ■ Screw configuration ■ Tooling ■ Temperature profile extruder 	<p>Standard extruders for elastomeric or thermoplastic processing</p> <p>Low compression screw with L/D of 12 to 25</p> <p>semi-compression or tube</p> <p>This profile will vary slightly depending on extruder type, head design and output.</p>
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<ul style="list-style-type: none"> ■ Maximum mass temperature ■ Drying 	<p>110 – 120°C</p> <p>Pre-drying of Melos FM Bedding Compounds is normally not necessary provided that the compound has been stored in the original sealed bags under cool (max. 30°C) and dry conditions.</p>
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STORAGE INFORMATION

<ul style="list-style-type: none"> ■ Form & packaging ■ Shelf life 	<p>Pellets in sizes 5.5mm & 7.5mm</p> <p>PE-bags (25 kg), Octabins (1.000-2.000 kg), BigBags (max. 1.250 kg)</p> <p>1 year after production</p>
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