



## Flame-retardant bedding compound for XLPE insulation and HFFR sheathing.

### ■ Compound class

Bedding compound

### ■ Application examples: Insulation

2 XI 1	XLPE
2 YI 1 - 5	PE
9 YI 1	PP
3 GI 3	EPR

### ■ Application examples: Sheathing

HM 4 – 2	HFFR
2 YM 3	HDPE

### ■ 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 20

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 tandem process



Flame retardant



Halogen-free

## PHYSICAL PROPERTIES

### ■ Physical properties

	Unit	Typical value	Test method
Density*	g/cm <sup>3</sup>	<b>1,91</b>	DIN EN ISO 1183-1A
Hardness*	Shore A	<b>80</b>	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	<b>30</b>	DIN ISO 289-1

## ELECTRICAL PROPERTIES \*

### ■ Major electrical properties

	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	≥ <b>10<sup>10</sup></b>	VDE 0472 Part 503
Surface resistivity (at 23°C)	Ω	≥ <b>10<sup>9</sup></b>	VDE 0472 Part 502

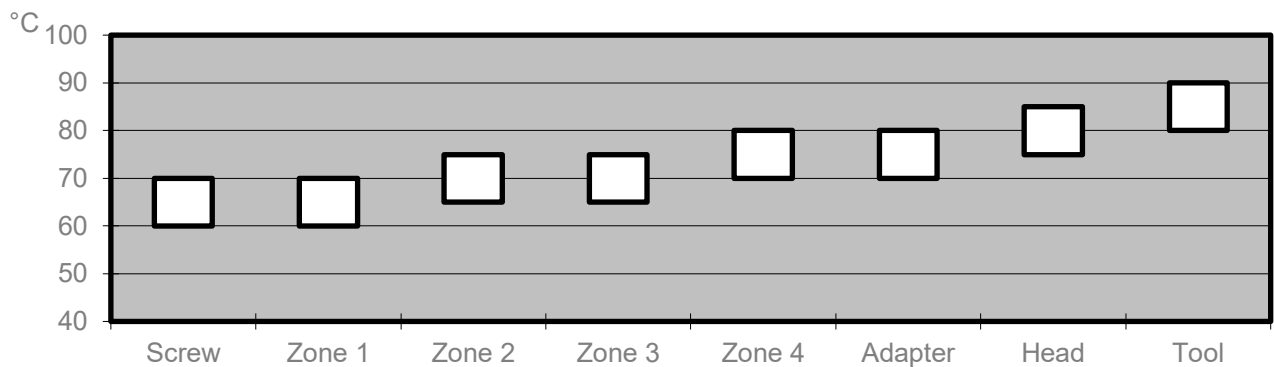
**BURNING PROPERTIES \***

■ Main burning properties	Unit	Typical value	Test method
LOI	%	<b>45</b>	ASTM D 2863 A
Temperature index	°C	<b>290</b>	ISO 4589-3
■ Acid gas emission	Unit	Typical value	Test method
pH (min.)	-	<b>≥ 4,3</b>	IEC 60754-2
Conductivity (max.)	μS cm-1	<b>≤ 100</b>	IEC 60754-2

\* pressed plaques, 100°C / 5 min.

## PROCESSING GUIDE

<ul style="list-style-type: none"> <li>■ <b>Extruder type</b></li> <li>■ <b>Screw configuration</b></li> <li>■ <b>Tooling</b></li> <li>■ <b>Temperature profile extruder</b></li> </ul>	<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>The profile shown below may vary slightly depending on extruder type, head design &amp; output.</p>
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<ul style="list-style-type: none"> <li>■ <b>Maximum mass temperature</b></li> <li>■ <b>Drying</b></li> </ul>	<p>80 – 90 °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"> <li>■ <b>Form &amp; packaging</b></li> <li>■ <b>Shelf life</b></li> </ul>	<p>Pellets in sizes 5.5mm &amp; 7.5mm 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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