



## 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

### ■ Typical applications

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



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### ■ Features



For 2-step process (coilable)



Halogen-free

## PHYSICAL PROPERTIES

### ■ Physical properties

	Unit	Typical value	Test method
Density*	g/cm <sup>3</sup>	<b>1,61</b>	DIN EN ISO 1183-1A
Hardness*	Shore D	<b>36</b>	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	-	<b>35</b>	DIN ISO 289-1

## MECHANICAL PROPERTIES

### ■ Thermoplastic \*

	Unit	Typical value	Test method
Tensile strength	N/mm <sup>2</sup>	<b>≥ 5,0</b>	IEC 60811-501
Elongation at break	%	<b>≥ 600</b>	IEC 60811-501

## ELECTRICAL PROPERTIES \*

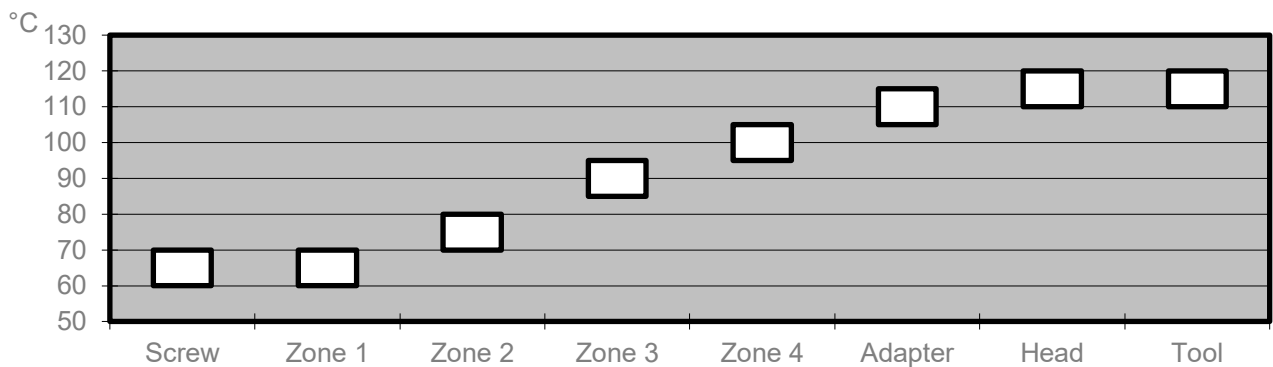
### ■ Major electrical properties

	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

\* 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 possible</p> <p>The profile will vary slightly depending on extruder type, head design and 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>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> <p>If Melos Cable Compounds are used from open bags, predrying 4–6h at a temperature of 60–70°C is recommended.</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</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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