



## Bedding compound for PVC sheathing and PVC insulation.

### ■ Compound class

Bedding

### ■ Application examples: Insulation

YI 1 - 5 PVC

### ■ Application examples: Sheathing

YM 1 – YM 5 PVC

### ■ Based on

EPR

acc. DIN / VDE 0207 part 4

acc. DIN / VDE 0207 part 5

### ■ Characteristics

Halogen free

### ■ Typical applications

*For cables and wire with max. 90°C operating temperature at conductor.*



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### ■ Features



For tandem process



Migration stabilised



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>67</b>	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	<b>22</b>	DIN ISO 289-1

## ELECTRICAL PROPERTIES \*

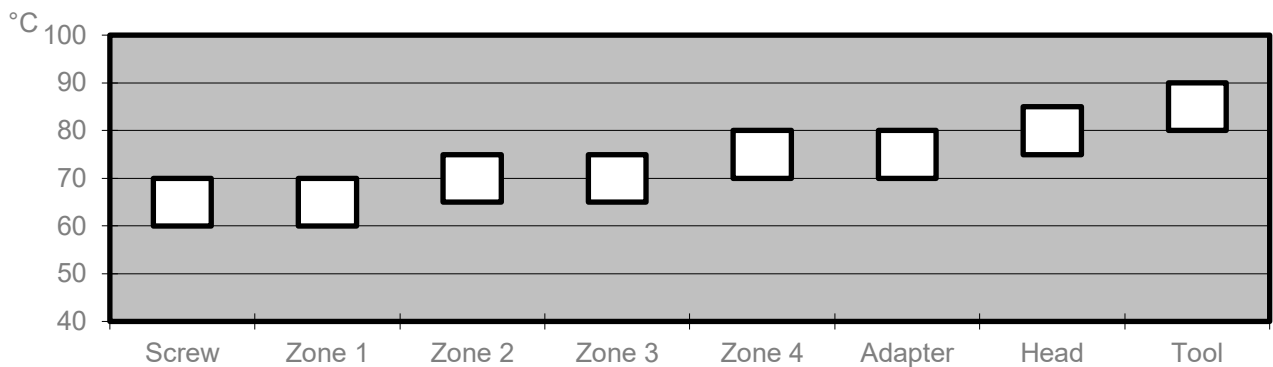
### ■ Major electrical properties

	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	<b>≥10<sup>12</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

<b>■ Extruder type</b>	Standard extruders for elastomeric or thermoplastic materials.
<b>■ Screw configuration</b>	Low compression screw with L/D of 12 to 25 and compression
<b>■ Tooling</b>	Semi-compression or tube
<b>■ Temperature profile extruder</b>	The profile shown below may vary slightly depending on extruder type, head design & output.



<b>■ Maximum mass temperature</b>	80 – 90°C
<b>■ Drying</b>	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. FM compounds used from open bags require pre-drying during 4–6 hours at 60–70°C.

## STORAGE INFORMATION

<b>■ Form &amp; packaging</b>	Pellets in sizes 5.5mm & 7.5mm Moisture-resistant bags (25kg), Octabins (alu-innerliner, max. 1250kg) & BigBags
<b>■ Shelf life</b>	1 year after production

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