

FM for XLPE/HFFR **Non flame-retardant bedding compound for XLPE insulation and HFFR sheathing.**

<p>■ Compound class Bedding compound</p> <p>■ Application examples: Insulation 2 XI 1 XLPE 2 YI 1 - 5 PE 9 YI 1 PP</p> <p>■ Application examples: Sheathing 2 YM 3 HDPE</p>	<p>■ Based on IIR</p> <p>acc. DIN / VDE 0207 part 22 acc. DIN / VDE 0207 part 2 acc. DIN / VDE 0207 part 7</p> <p>acc. DIN / VDE 0207 part 3</p>	<p>■ Characteristics Halogen-free</p>		
<p>■ Typical applications <i>Bedding compound for cables and wire with max. 90°C operating temperature at conductor.</i></p>				
<p>Home</p>	<p>City</p>	<p>Industry</p>		
<p>■ Features</p> <table border="0"> <tr> <td style="text-align: center;"> <p>For tandem process</p> </td> <td style="text-align: center;"> <p>Halogen-free</p> </td> </tr> </table>			<p>For tandem process</p>	<p>Halogen-free</p>
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PHYSICAL PROPERTIES

Physical properties	Unit	Typical value	Test method
Density*	g/cm ³	1,91	DIN EN ISO 1183-1A
Hardness*	Shore A	75	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	55	DIN ISO 289-1

MECHANICAL PROPERTIES

Thermoplastic *	Unit	Typical value	Test method
Tensile strength	N/mm ²	≥ 0,5	IEC 60811-501
Elongation at break	%	≥ 20	IEC 60811-501

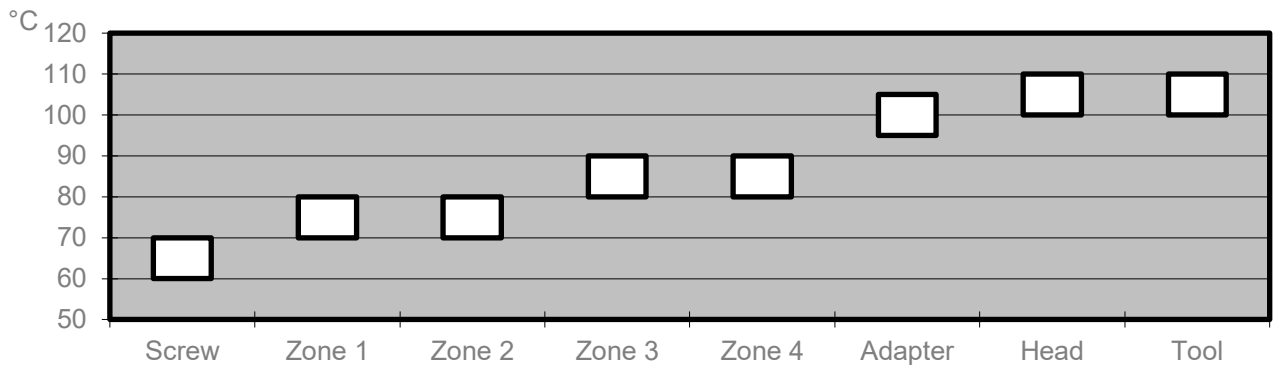
ELECTRICAL PROPERTIES *

■ Major electrical properties	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	$\geq 10^{12}$	VDE 0472 Part 503
Surface resistivity (at 23°C)	Ω	$\geq 10^9$	VDE 0472 Part 502

* pressed plaques, 100°C / 5 min.

PROCESSING GUIDE

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



- **Maximum mass temperature** 100-110°C
- **Drying** 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.

STORAGE INFORMATION

- **Form & packaging** Pellets in sizes 5.5mm & 7.5mm
PE-bags (25 kg), Octabins (1.000-2.000 kg), BigBags (max. 1.250 kg)
- **Shelf life** 1 year after production

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