

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</p> <p>2 XI 1 XLPE 2 YI 1 - 5 PE 9 YI 1 PP 3 GI 3 EPR</p> <p>■ Application examples: Sheathing</p> <p>HM 4-2 HFFR 2 YM 3 HDPE</p>	<p>■ Based on NBR</p> <p>acc. DIN / VDE 0207 part 22 acc. DIN / VDE 0207 part 2 acc. DIN / VDE 0207 part 7 acc. DIN / VDE 0207 part 20</p> <p>acc. DIN / VDE 0207 part 24 acc. DIN / VDE 0207 part 3</p>	<p>■ Characteristics Halogen-free</p>
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■ **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
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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	80	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	40	DIN ISO 289-1

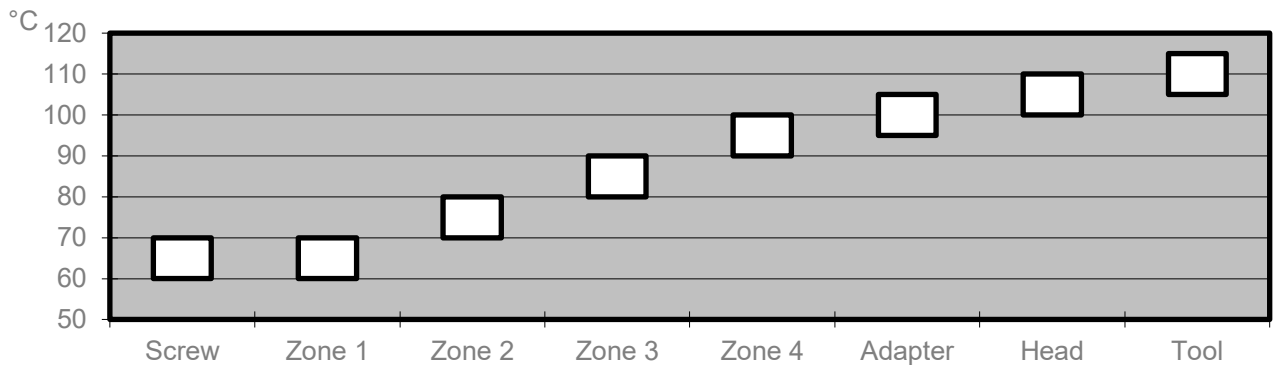
ELECTRICAL PROPERTIES *

Major electrical properties	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	≥ 10¹²	VDE 0472 Part 503
Surface resistivity (at 23°C)	Ω	≥ 10⁹	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	105 – 115°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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