



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

■ Compound class

Bedding compound

■ Based on

TPE-O

■ Characteristics

Halogen-free flame retardant

■ Application examples: Insulation

2 XI 1	XLPE	acc. DIN / VDE 0207 part 22
2 YI 1 - 5	PE	acc. DIN / VDE 0207 part 2
9 YI 1	PP	acc. DIN / VDE 0207 part 7
3 GI 3	EPR	acc. DIN / VDE 0207 part 20

■ Application examples: Sheathing

HM 4 – 2	HFFR	acc. DIN / VDE 0207 part 24
2 YM 3	HDPE	acc. DIN / VDE 0207 part 3

■ 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 ³	1,91	DIN EN ISO 1183-1A
Hardness*	Shore A	80	DIN ISO 7619-1
Mooney viscosity, ML (1+4) 100°C	MU	30	DIN 53 523

ELECTRICAL PROPERTIES *

■ Major electrical properties	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	≥ 10¹⁰	VDE 0472 Part 503
Surface resistivity (at 23°C)	Ω	≥ 10⁹	VDE 0472 Part 502

BURNING PROPERTIES *

■ Main burning properties	Unit	Typical value	Test method
LOI	%	45	ASTM D 2863 A
Temperature index	°C	290	ISO 4589-3
■ Acid gas emission	Unit	Typical value	Test method
pH (min.)	-	≥ 4,3	DIN VDE 0472- 813
Conductivity (max.)	μS cm-1	≤ 100	

* pressed plaques, 100°C / 5 min.

PROCESSING GUIDE

■ **Extruder type**

Standard extruders for elastomeric or thermoplastic processing

■ **Screw configuration**

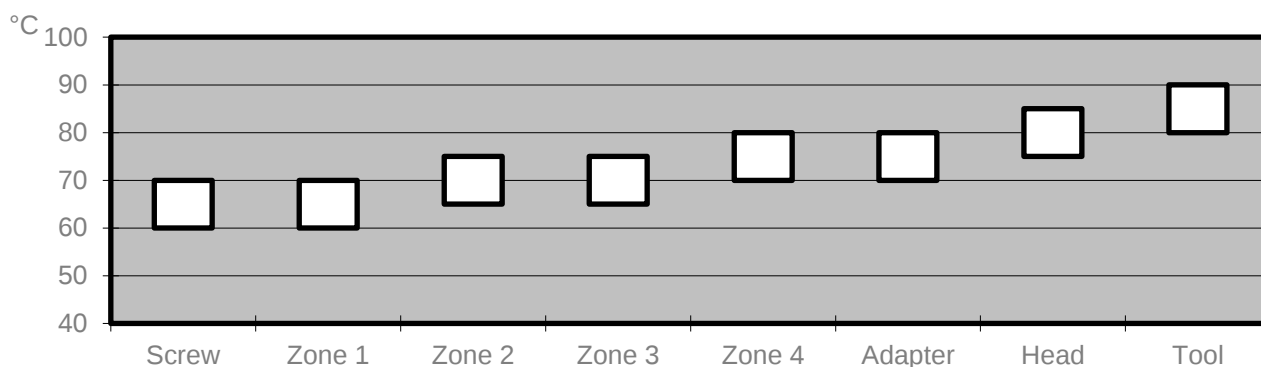
Low compression screw with L/D of 12 to 25

■ **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**

80 – 90 °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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