



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 HM 4 – 2 HFFR 2 YM 3 HDPE</p>	<p>■ Based on TPE-O</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 24 acc. DIN / VDE 0207 part 3</p>	<p>■ Characteristics Halogen-free flame retardant</p>
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■ **Typical applications**
Bedding compound for cables and wire according to VDE 0472 part 814 and BS 6724 with max. 90°C operating temperature at conductor.



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■ **Features**



For 2-step process (coilable)



Flame retardant



Halogen-free

PHYSICAL PROPERTIES

Physical properties	Unit	Typical value	Test method
Density*	g/cm ³	1.64	DIN EN ISO 1183-1A
Hardness*	Shore D	39	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	43	DIN ISO 289-1

MECHANICAL PROPERTIES

Thermoplastic *	Unit	Typical value	Test method
Tensile strength	N/mm ²	5.3	IEC 60811-501
Elongation at break	%	> 400	IEC 60811-501

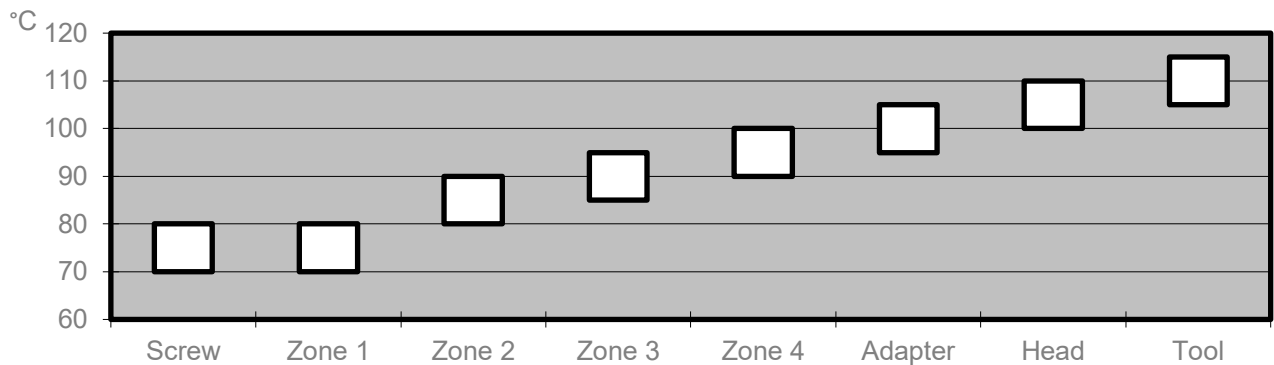
BURNING PROPERTIES *

Main burning properties	Unit	Typical value	Test method
LOI	%	34	ASTM D 2863 A

* pressed plaques, 105°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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