



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

2 YI 1 - 5 PE

9 YI 1 PP

acc. DIN / VDE 0207 part 22

acc. DIN / VDE 0207 part 2

acc. DIN / VDE 0207 part 7

■ Application examples: Sheathing

HM 4 - 2 HFFR

2 YM 3 HDPE

acc. DIN / VDE 0207 part 24

acc. DIN / VDE 0207 part 3

■ 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.



Home



City



Industry

■ 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 7619-1
Mooney viscosity, ML (1+4) 100°C	MU	43	DIN 53 523

MECHANICAL PROPERTIES

■ Thermoplastic *	Unit	Typical value	Test method
Tensile strength	N/mm ²	5.3	IEC 60811-401
Elongation at break	%	> 400	IEC 60811-401

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**

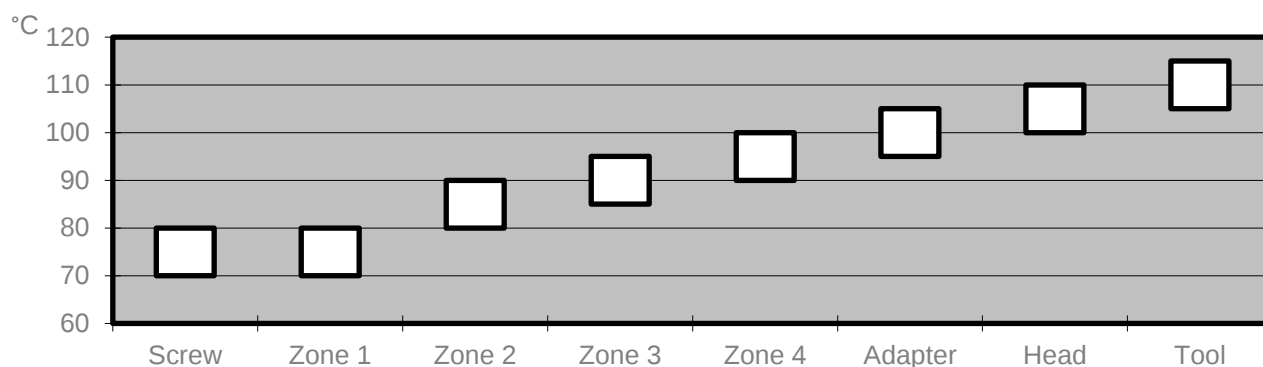
Low compression screw with L/D of 12 to 25

■ **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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