Technical data sheet

FM 303 BK

Conductive bedding compound.

■ Compound class	■ Based on	■ Characteristics
Semi- conductive bedding compound	IIR	Halogen-free, black

■ Application examples: Insulation

2 XI 1	XLPE	acc. DIN / VDE 0207 part 22

■ Application examples: Sheathing

2 YM 3	HDPE	acc. DIN / VDE 0207 part 3

■ Typical applications

For cables and wire with max. 90°C operating temperature at conductor.

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■ Features

For 2-step process (coilable)

Halogen-free

PHYSICAL PROPERTIES

■ Physical properties	Unit	Typical value	Test method
Density*	g/cm³	**1,67**	DIN EN ISO 1183-1A
Hardness*	Shore A	**80**	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	**47**	DIN ISO 289-1

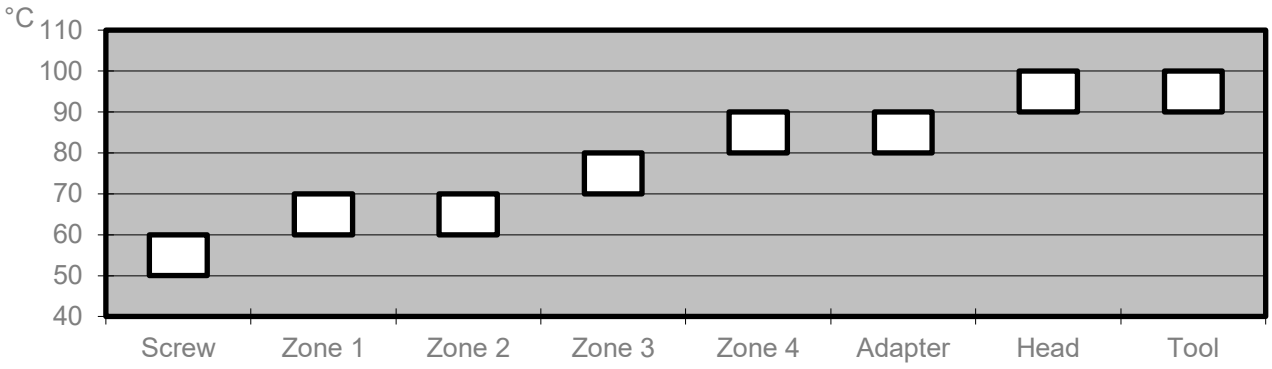
ELECTRICAL PROPERTIES *

■ Major electrical properties	Unit	Typical value	Test method
Volume resistivity (at 27°C)	Ω cm	**≤ 10^3**	VDE 0472 Part 503

* 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**	90 – 100°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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