





Migration stabilised bedding compound for PVC insulation and PVC sheathing.


<p>■ Compound class Bedding compound</p> <p>■ Application examples: Insulation YI 1 - 5 PVC</p> <p>■ Application examples: Sheathing YM 1 - YM 5 PVC</p> <p>■ Typical applications <i>Bedding compound for cables and wire with max. 90°C operating temperature at conductor.</i></p>	<p>■ Based on EPR</p> <p>acc. DIN / VDE 0207 part 4</p> <p>acc. DIN / VDE 0207 part 5</p>	<p>■ Characteristics Halogen-free flame retardant</p>
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■ Features		
 <p>For tandem process</p>	 <p>Flame retardant</p>	 <p>Halogen-free</p>
 <p>Migration stabilised</p>		

PHYSICAL PROPERTIES

■ Physical properties	Unit	Typical value	Test method
Density*	g/cm ³	1,88	DIN EN ISO 1183-1A
Hardness*	Shore A	70	DIN ISO 48-4
Mooney viscosity, ML (1+4) 100°C	MU	27	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

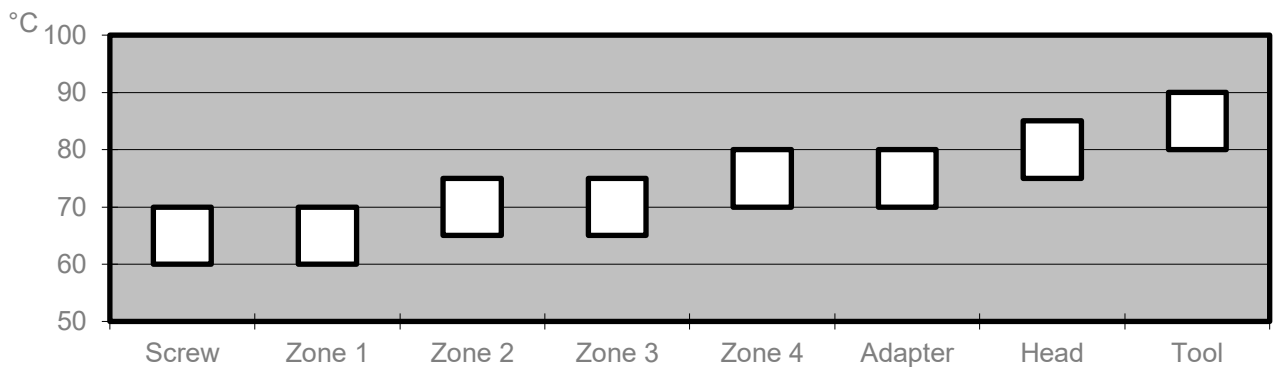
BURNING PROPERTIES *

■ Main burning properties	Unit	Typical value	Test method
LOI	%	35	ASTM D 2863 A
Temperature index	°C	260	ISO 4589-3
■ Acid gas emission	Unit	Typical value	Test method
pH (min.)	-	≥ 4,3	IEC 60754-2
Conductivity (max.)	μS cm-1	≤ 100	IEC 60754-2

* pressed plaques, 100°C / 5 min.

PROCESSING GUIDE

<ul style="list-style-type: none"> ■ Extruder type ■ Screw configuration ■ Tooling ■ Temperature profile extruder 	<p>Standard extruders for elastomeric or thermoplastic processing</p> <p>Low compression screw with L/D of 12 to 25</p> <p>semi-compression or tube</p> <p>The profile shown below may vary slightly depending on extruder type, head design & output.</p>
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<ul style="list-style-type: none"> ■ Maximum mass temperature ■ Drying 	<p>80 – 90°C</p> <p>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.</p>
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STORAGE INFORMATION

<ul style="list-style-type: none"> ■ Form & packaging ■ Shelf life 	<p>Pellets in sizes 5.5mm & 7.5mm</p> <p>PE-bags (25kg), Octabins (1.000-2.000 kg), BigBags (max. 1.250 kg)</p> <p>1 year after production</p>
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