

# PEBAX® MV 1074 SA 01 MED

Polyether block amide Pebax® MV 1074 SA 01 MED is a thermoplastic elastomer made of flexible and hydrophilic polyether and rigid polyamide.

- Hydrophilic Pebax® MV 1074 SA 01 MED is suitable for extrusion or coextrusion and offers excellent high moisture absorption properties in wet environments, enhancing lubricity against bodily tissue.
- Pebax® MV 1074 SA 01 MED is also an inherently dissipative polymer and can be dry blended or compounded with a polymer matrix to lower the surface resistivity of the final part.

This grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. Upon request, letters regarding USP Class VI compliance can be provided.

## MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
<b>Density</b>	<b>1.07</b>	g/cm <sup>3</sup>	ISO 1183
<b>Water Absorption at Equilibrium</b> At 20°C and 50 % R.H.	<b>1.4</b>	%	ISO 62
<b>Water Absorption</b> At 23°C and 24 h in water	<b>48</b>	%	
<b>Melting Point</b>	<b>158</b>	°C	ISO 11357
<b>Hardness (*)</b> Instantaneous	<b>40</b>	Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break	<b>30</b>	MPa	ISO 527
Strain at Break	<b>&gt;700</b>	%	
<b>Flexural Modulus (*)</b>	<b>80</b>	MPa	ISO 178
<b>Surface Resistivity (*)</b>	<b>3 10<sup>9</sup></b>	Ω / sq	IEC 60093
<b>Volume Resistivity (*)</b>	<b>2.5 10<sup>9</sup></b>	Ω.cm	IEC 60093
<b>Charge Decay Time (*)</b>	<b>&lt; 1</b>	s	MIL B-81705
<b>Refractive Index</b>	<b>1.502</b>	-	Internal Method

(\*) Samples conditioned 15 days at 23°C - 50 % R.H.

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## MAIN APPLICATIONS

- Permanent antistatic additive.
- Breathable membranes.
- Surgical tubings.

## PROCESSING CONDITIONS

Conditions	Typical values
<b>Extrusion</b> Melt Temperature (Min / Recommended / Max)	<b>210°C / 220°C / 230°C</b>
<b>Injection</b> Melt Temperature (Min / Recommended / Max)	<b>200°C / 240°C / 270°C</b>
<b>Mold</b> Temperature	<b>25 – 60°C</b>
<b>Drying (only necessary for bags opened for more than one hour)</b> Time Temperature	<b>4 - 6 hours</b> <b>65 - 75°C</b>

## PACKAGING

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

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See Safety Data Sheet for Health & Safety Considerations.