

# PEBAX® MV 1074 SA 01 MED

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

Refractive index according to an internal method is 1.502.

#### Main applications:

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

#### Packaging:

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

#### Shelf Life:

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

## MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
Tensile Modulus	14100 / 11600	psi	ISO 527-1/-2
Stress at 50% strain	1450 / 1450	psi	ISO 527-1/-2
Strain at break	> 50 / > 50	%	ISO 527-1/-2
Charpy impact strength, +23°C	N / N	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N / N	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	N / N	ftlb/in <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	N / N	ftlb/in <sup>2</sup>	ISO 179/1eA
Melting temperature, 10°C/min	316 / *	°F	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-40 / *	°F	ISO 11357-1/-2
Oxygen index	19 / *	%	ISO 4589-1/-2
Volume resistivity	1.5E9 / 2.5E7	Ohm*m	IEC 60093
Surface resistivity	* / 3E9	Ohm	IEC 60093
Electric strength	127 / -	kV/in	IEC 60243-1
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1.07 / -	g/cm <sup>3</sup>	ISO 1183
Injection Molding, melt temperature	428	°F	ISO 294
Injection Molding, mold temperature	86	°F	ISO 10724
Injection Molding, injection velocity	7.87	in/s	ISO 294
Injection Molding, pressure at hold	4350	psi	ISO 294
Maximum stress, parallel	4640 / *	psi	ISO 527-3
Maximum stress, normal	4930 / *	psi	ISO 527-3

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Maximum strain, parallel	500 / *	%	ISO 527-3
Maximum strain, normal	700 / *	%	ISO 527-3
Strain at break TPE	> 300 / *	%	ISO 527-1/-2
Stress at break TPE	4350 / *	psi	ISO 527-1/-2
Shore D hardness, 15s	40 / *	-	ISO 7619-1

## Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 200°C / 240°C / 270°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

## Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

## Processing

Injection Molding, Other Extrusion

## Special Characteristics

Anti-static, Light stabilized or stable to light, Heat stabilized or stable to heat

## Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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[pebax.com](http://pebax.com)

### Arkema Inc. – Technical Polymers

900 First Avenue  
King of Prussia, PA 19406  
Tel.: +1 610 205 7000  
Fax: +1 610 205 7497  
[arkema-america.com](http://arkema-america.com)

**PEBAX®**  
BY ARKEMA

### Headquarters: Arkema France

420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
Tel.: +33 1 49 00 80 80  
Fax: +33 1 49 00 83 96  
[arkema.com](http://arkema.com)