

# 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	97 / 80	MPa	ISO 527-1/-2
	14100 / 11600	psi	
Stress at 50% Strain	10 / 10	MPa	ISO 527-1/-2
	1450 / 1450	psi	
Strain at Break	>50 / >50	%	ISO 527-1/-2
Strain at Break TPE	>300 / *	%	ISO 527-1/-2
Stress at Break TPE	30 / *	MPa	ISO 527-1/-2
	4350 / *	psi	
Shore D Hardness, after 15 s	38 / *	-	ISO 868
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Maximum Stress, parallel	32 / *	MPa	ISO 527-3
	4640 / *	psi	
Maximum Stress, normal	34 / *	MPa	ISO 527-3
	4930 / *	psi	
Maximum Strain, parallel	500 / *	%	ISO 527-3
Maximum Strain, normal	700 / *	%	ISO 527-3
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	158 / *	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	-40 / *	°C	ISO 11357-1/-2
Oxygen Index	19 / *	%	ISO 4589-1/-2
<b>ELECTRICAL PROPERTIES</b>			
Volume Resistivity	1.5E9 / 2.5E7	Ohm* m	IEC 62631-3-1

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Source: automatically generated TDS from Material Database on 20-02-2024

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Surface Resistivity	* / 3E9	Ohm	IEC 62631-3-2
Dielectric (Electric) Strength	5 / -	kV/mm	IEC 60243-1
	127 / -	kV/in	
OTHER PROPERTIES			
Humidity Absorption, 23°C, RH50%, equilibrium	1.4 / *	%	ISO 62
Density	1070 / -	kg/m <sup>3</sup>	ISO 1183
	1.07 / -	g/cm <sup>3</sup>	

### 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.

#### 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.

<b>PROCESSING</b>	Headquarters:
Injection Molding, Other Extrusion	Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
<b>SPECIAL CHARACTERISTICS</b>	
Anti-Static, Heat Stabilized	
<b>REGIONAL AVAILABILITY</b>	Arkema Inc. – High Performance Polymers
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com

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