

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 CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	97 / 80	MPa	ISO 527-1/-2
Stress at 50% Strain	10 / 10	MPa	ISO 527-1/-2
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
Shore D Hardness, 15s	40 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eA
Maximum Stress, parallel	32 / *	MPa	ISO 527-3
Maximum Stress, normal	34 / *	MPa	ISO 527-3
Maximum Strain, parallel	500 / *	%	ISO 527-3
Maximum Strain, normal	700 / *	%	ISO 527-3
THERMAL PROPERTIES			
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
ELECTRICAL PROPERTIES			
Volume Resistivity	1.5E9 / 2.5E7	Ohm*m	IEC 60093
Surface Resistivity	* / 3E9	Ohm	IEC 60093
Dielectric (Electric) Strength	5 / -	kV/mm	IEC 60243-1
OTHER PROPERTIES			
Humidity Absorption	1.4 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m ³	ISO 1183

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MAIN APPLICATIONS:

- reathable membranes
- Permanent antistatic additive
- Surgical tubings and garments

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PEBAX®
BY ARKEMA

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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.

PROCESSING

Injection Molding, Other Extrusion

SPECIAL CHARACTERISTICS

Anti-Static, Heat Stabilized

REGIONAL AVAILABILITY

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

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