

TECHNICAL DATA SHEET

PEBAX® MV 1074 SA 01 MED

POLYETHER BLOCK AMIDE PELLET

PEBAX® MV 1074 SA01 MED is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This grade offers the highest quality and is approved in medical applications, specially breathable films & membranes. Upon request, letters regarding USP Class VI compliance can be provided. PEBAX® MV 1074 SA 01 MED is an hydrophilic grade, when extruded into either a thin film or laminated on to a substrate, offers excellent permeability to moisture vapor while remaining waterproof. It is suitable for extrusion or coextrusion and offers excellent high moisture absorption properties in wet environments, enhancing lubricity against bodily tissue. Furthermore, it is an inherently dissipative polymer and can be dry blended or compounded with an isolative polymer to lower the surface resistivity of the final part.

TYPE

PEBA

MAIN APPLICATIONS

- Health - Consumable - Others
- Health - Consumable - Catheters
- Other Medical
- Film
- Antistatics

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	0.7	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.0	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Shore D, 15 s	- / 38		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eU
Stress at 50% strain, 23°C (73°F), 50 mm/min	10 / 10	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	97 / 80	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 80	MPa	ISO 178

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditioned.

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Melting temperature, 10°C/min	158	°C	ISO 11357-1/-3

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ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Surface resistivity, 23°C (73°F)	- / 3.0E+9	Ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	1.5E+9 / 2.5E+7	Ohm.m	IEC 62631-3-1
Dielectric stress, 23°C (73°F)	- / 5	kV/mm	IEC 60243-1

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	1.4	%	ISO 62
Specific gravity, 23°C (73°F)	1.07	g/cm ³	ISO 1183-1

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 210°C / 240°C / 270°C (410°F / 430°F / 520°F)
- Typical mold temperature - Injection molding: 10-30°C (50-90°F)
- Drying time and temperature: 60-70°C (140-160°F) / 4-8 hours

SPECIAL CHARACTERISTICS

- Anti-static

REGIONAL AVAILABILITY

Africa, Asia Pacific, Europe, Latin America and the Caribbean, Middle East, Northern America