

TECHNICAL DATA SHEET

PEBAX[®] MV 1074 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX[®] MV 1074 SP 01 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade is heat & UV stabilized. It is used in sport and consumer applications. As an hydrophilic grade, when extruded into either a thin film or laminated on to a substrate, it offers excellent permeability to moisture vapor while remaining waterproof. PEBAX[®] MV 1074 SP 01 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.

DESIGNATION

PEBA

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding
- Thermoforming

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Shrinkage, Parallel (t+24h)	0.7 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.0 %	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
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: Conditionned.

속성	값	테스트 표준
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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THERMAL PROPERTIES/ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Surface resistivity, 23°C (73,4°F)	- / 3.0E+9 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	1.5E+9 / 2.5E+7 ohm/m	IEC 62631-3-1
Dielectric stress, 23°C (73,4°F)	- / 5	IEC 60243-1

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

OTHER PROPERTIES

속성	값	테스트 표준
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	1.4 %	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	48 %	ISO 62
Specific gravity, 23°C (73°F)	1.07 g/cm ³	ISO 1183-1

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 26 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

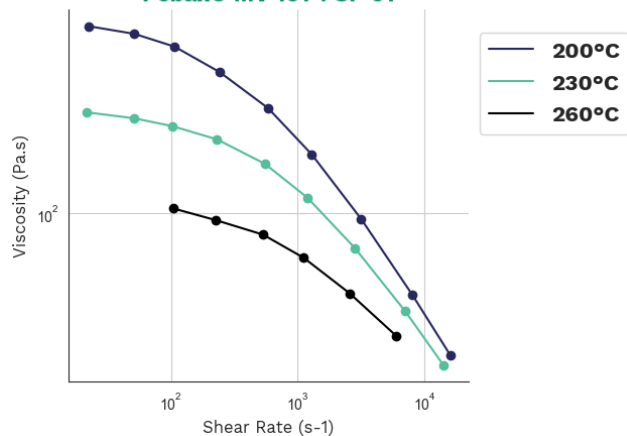
SPECIAL CHARACTERISTICS

- Anti-static

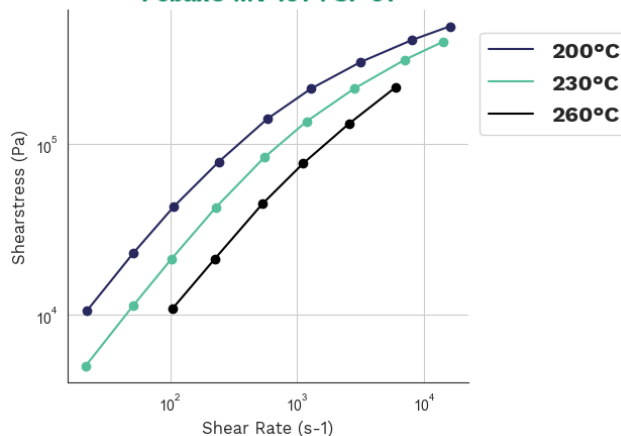
PEBAX® MV 1074 SP 01

DIAGRAMS

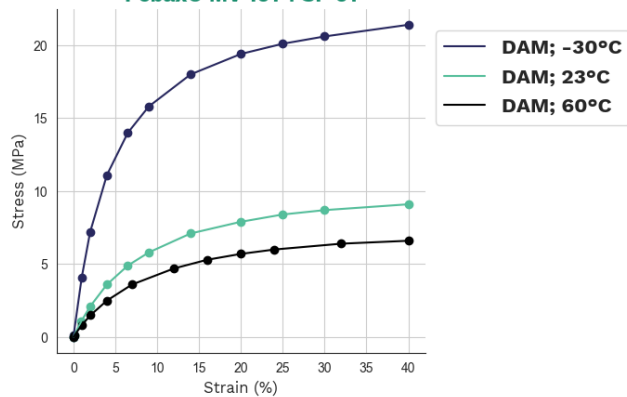
Viscosity-shear rate
Pebax® MV 1074 SP 01



Shearstress-shear rate
Pebax® MV 1074 SP 01



Stress-strain
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