

PEBAX® MV 3000 SP 01

Polyether block amide Pebax® MV 3000 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof. This SP grade is specifically designed for outdoor application that needs excellent weather resistance properties.

MAIN CHARACTERISTICS

| Property | Typical Value | Unit | Test Method |
|--|--|--|-----------------------------|
| Density | 1.02 | g/cm ³ | ISO 1183 |
| Water Absorption at Equilibrium At 20°C and 50 % R.H. | 1 | % | ISO 62 |
| Water Absorption At 23°C and 24 h in water | 28 | % | |
| Moisture Vapor Transmission Rate (MVTR) Film thickness 15 µm; 38°C; 90% R.H. Film thickness 15 µm; 38°C; 50% R.H. | 3 100 – 4 000 19 000 – 25 000 | g/m ² /24h g/m ² /24h | ASTM E 96 E ASTM E 96 BW |
| Melting Point | 158 | °C | ISO 11357 |
| Hardness (*) Instantaneous | 35 | Shore D | ISO 868 |
| Tensile Test (*) Stress at Break Strain at Break | 35 >450 | MPa % | ISO 527 |
| Flexural Modulus (*) | 45 | MPa | ISO 178 |

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

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MAIN APPLICATIONS

- Breathable membranes.

PROCESSING CONDITIONS

| Conditions | Typical values |
|---|--|
| Extrusion Cast film – Recommended Melt Temperature Blown film – Recommended Melt Temperature Coating – Recommended Melt Temperature | 240 - 250°C 190 - 210°C 240 - 250°C |
| Drying (only necessary for bags opened for more than two hours) Time Temperature | 4 - 8 hours 70 - 80°C |

PACKAGING

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

SHELF LIFE

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

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See Safety Data Sheet for Health & Safety Considerations.