

# 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
<b>Density</b>	<b>1.02</b>	g/cm <sup>3</sup>	ISO 1183
<b>Water Absorption at Equilibrium</b> At 20°C and 50 % R.H.	<b>1</b>	%	ISO 62
<b>Water Absorption</b> At 23°C and 24 h in water	<b>28</b>	%	
<b>Moisture Vapor Transmission Rate (MVTR)</b> Film thickness 15 µm; 38°C; 90% R.H. Film thickness 15 µm; 38°C; 50% R.H.	<b>3 100 – 4 000</b> <b>19 000 – 25 000</b>	g/m <sup>2</sup> /24h g/m <sup>2</sup> /24h	ASTM E 96 E ASTM E 96 BW
<b>Melting Point</b>	<b>158</b>	°C	ISO 11357
<b>Hardness (*)</b> Instantaneous	<b>35</b>	Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>35</b> <b>&gt;450</b>	MPa %	ISO 527
<b>Flexural Modulus (*)</b>	<b>45</b>	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
<b>Extrusion</b> Cast film – Recommended Melt Temperature Blown film – Recommended Melt Temperature Coating – Recommended Melt Temperature	<b>240 - 250°C</b> <b>190 - 210°C</b> <b>240 - 250°C</b>
<b>Drying (only necessary for bags opened for more than two hours)</b> Time Temperature	<b>4 - 8 hours</b> <b>70 - 80°C</b>

## 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.