

# PEBAX®

## MV 3000 SP 01

Polyether block **Pebax® MV 3000 SP 01 resin** 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 45	MPa	ISO 527-1/-2
	- / 6530	psi	
Stress at 50% Strain	- / 7	MPa	ISO 527-1/-2
	- / 1020	psi	
Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	35 / *	-	ISO 868
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	158 / *	°C	ISO 11357-1/-3
<b>OTHER PROPERTIES</b>			
Water Absorption	28 / *	%	Sim. to ISO 62
Humidity Absorption	1 / *	%	Sim. to ISO 62
Density	1020 / 1020	kg/m <sup>3</sup>	ISO 1183
	1.02 / 1.02	g/cm <sup>3</sup>	

### MAIN APPLICATIONS:

- Breathable membranes

### PACKAGING:

This grade is delivered dried in sealed packaging (20 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:

- Cast Film - Typical melt temperature : 240 - 250°C.
- Blown Film - Typical melt temperature : 190 - 210°C.
- Coating - Typical melt temperature : 240 - 250°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 70-80°C.

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<b>PROCESSING</b> Film Extrusion, Other Extrusion, Calendering, Casting	
<b>DELIVERY FORM</b> Pellets	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	