

## TECHNICAL DATA SHEET

# PEBAX® MV 3000 SP 01

## POLYETHER BLOCK AMIDE PELLET

PEBAX® MV 3000 SP 01 resin is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade is heat & UV stabilized. It is specifically designed for outdoor application that needs excellent weather resistance properties (breathable membranes). 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.

### DESIGNATION

PEBA

### MAIN APPLICATIONS

- Film
- Breathable Films - Housewrap

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Calendering
- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 15 s	- / 35	ISO 868
Stress at 50% strain, 23°C (73°F), 50 mm/min	- / 7 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 45 MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 45 MPa	ISO 178

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

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	158 °C	ISO 11357-1/-3

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	1 %	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	28 %	ISO 62
Specific gravity, 23°C (73°F)	1.02 g/cm <sup>3</sup>	ISO 1183-1

## PACKAGING

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

- 20 kg / 44 lb bags

# PEBAX® MV 3000 SP 01

## 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

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

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

[arkema.com](https://www.arkema.com)

**ARKEMA**