

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, is offers excellent permeability to moisture vapor while remaining waterproof.

TYPE

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

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	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 ³	ISO 1183-1

PACKAGING

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