

TECHNICAL DATA SHEET

PEBAX® MV 2080

POLYETHER BLOCK AMIDE PELLET

PEBAX® MV 2080 resin is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. PEBAX® MV 2080 resin is an inherently dissipative polymer and can be dry blended or compounded with an isolative polymer to lower the surface resistivity of the final part.

TYPE

PEBA

MAIN APPLICATIONS

- Film
- Antistatics

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	0.7	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.0	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Shore D, 15 s	- / 39		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	- / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break		ISO 179 1eU
Stress at 50% strain, 23°C (73°F), 50 mm/min	- / 9	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 80	MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 80	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	160	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2

ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Surface resistivity, 23°C (73°F)	- / 1.0E+7	Ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 1.0E+7	Ohm.m	IEC 62631-3-1

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

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	1.4	%	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	48	%	ISO 62
Specific gravity, 23°C (73°F)	1.07	g/cm ³	ISO 1183-1

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

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