

Pebax® MV 2080

TPA

Pebax® MV 2080 resin

Polyether block amide **Pebax® MV 2080 resin** is 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.

Refractive index according to an internal method is 1.502.

Main applications:

- Permanent antistatic additive.

Packaging:

This grade is delivered dried in sealed packaging (25 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.

Mechanical properties

	dry / cond	Unit	Test Standard
Tensile Modulus	- / 80	MPa	ISO 527-1/-2
Stress at 50% strain	- / 9	MPa	ISO 527-1/-2
Strain at break	- / >50	%	ISO 527-1/-2
Charpy impact strength, +23°C	- / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	- / N	kJ/m ²	ISO 179/1eU

Thermal properties

	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	160 / *	°C	ISO 11357-1/-3

Electrical properties

	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E7	Ohm*m	IEC 60093
Surface resistivity	* / 1E7	Ohm	IEC 60093

Other properties

	dry / cond	Unit	Test Standard
Water absorption	48 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1070 / 1070	kg/m ³	ISO 1183

Test specimen production

	Value	Unit	Test Standard
Injection Molding, melt temperature	220	°C	ISO 294
Injection Molding, mold temperature	30	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	30	MPa	ISO 294

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Mechanical properties (TPE)

Shore D hardness, 15s

dry / cond

40 / *

Unit

-

Test Standard

ISO 7619-1

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 200°C / 240°C / 270°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Special Characteristics

Increased electrical conductivity, Anti-static

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa