

PEBAX® MH 1657

Polyether block amide **Pebax® MH 1657 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide.

Pebax® MH 1657 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.

This hydrophilic grade when extruded into either a thin film or laminated on to a substrate also offers excellent permeability to moisture vapor while remaining waterproof.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	90 / 80	MPa	ISO 527-1/-2
Stress at 50% Strain	13 / 12	MPa	ISO 527-1/-2
Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	204 / *	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	-40 / *	°C	ISO 11357-1/-2
ELECTRICAL PROPERTIES			
Volume Resistivity	- / 2E7	Ohm*m	IEC 60093
Surface Resistivity	* / 1.5E9	Ohm	IEC 60093
OTHER PROPERTIES			
Water Absorption	120 / *	%	Sim. to ISO 62
Humidity Absorption	4.5 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183

MAIN APPLICATIONS:

- Breathable membranes
- Permanent antistatic additive

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags and 550 kg rigid containers) 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:

- Typical melt temperature (Min / Recommended / Max): 230°C / 240°C / 260°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for bags/containers opened for more than two hours): 5-7 hours at 70-90°C.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 230°C / 250°C / 280°C.
- Drying time and temperature (only necessary for bags/containers opened for more than two hours): 5-7 hours at 70-90°C.

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PROCESSING

Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion, Transfer Molding, Casting, Thermoforming

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Anti-Static, Heat Stabilized

REGIONAL AVAILABILITY

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

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