

**Product Texts**

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 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.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>90 / 80</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 50% strain	<b>13 / 12</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Shore D hardness	<b>40 / *</b>	-	ISO 7619-1

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>204 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	<b>-40 / *</b>	°C	ISO 11357-1/-2

[C]: CAMPUS

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>- / 2E7</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>* / 1.5E9</b>	Ohm	IEC 62631-3-2

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>120 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>4.5 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1140 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>70 - 90</b>	°C	-
Pre-drying - Time	<b>5 - 7</b>	h	-
Melt temperature	<b>230 - 260</b>	°C	-
Mold temperature	<b>25 - 60</b>	°C	-

**Characteristics**

**Processing**

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

**Special Characteristics**

Increased electrical conductivity, Anti-static, Heat stabilized or stable to heat

**Delivery form**

Pellets

**Regional Availability**North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa**Other text information****Injection molding****Injection molding process 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.

**Other extrusion****Extrusion process 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.