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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.7 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	90 / 80	MPa	ISO 527-1/-2
	13100 / 11600	psi	
Stress at 50% Strain	13 / 12	MPa	ISO 527-1/-2
	1890 / 1740	psi	
Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore D Hardness, after 15 s	40 / *	-	ISO 868
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m²	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 62631-3-1
Surface Resistivity	* / 1.5E9	Ohm	IEC 62631-3-2
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	120 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	4.5 / *	%	ISO 62
Density	1140 / -	kg/m³	ISO 1183
	1.14 / -	g/cm³	

MAIN APPLICATIONS:

- Breathable membranes
- Permanent antistactic additive

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags and 550 kg rigid containers) ready to be processed.

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SHELF LIFE:
Two years from the delivery. For any use above this limit, please refer to our technical services.

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.

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.

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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