

PEBAX® MH 1657

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

- Pebax® MH 1657 is an inherently dissipative polymer and can be dry blended or compounded with a polymer matrix 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

Property	Typical Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Water Absorption at Equilibrium At 20°C and 50 % R.H.	4.5	%	ISO 62
Water Absorption At 23°C and 24 h in water	120	%	
Melting Point	204	°C	ISO 11357
Hardness (*) Instantaneous	40	Shore D	ISO 868
Flexural Modulus (*)	80	MPa	ISO 178
Surface Resistivity (*)	1 10 ⁹	Ω / sq	IEC 60093
Volume Resistivity (*)	2 10 ⁹	Ω.cm	IEC 60093
Charge Decay Time (*)	< 1	s	MIL B-81705
Refractive Index	1.508	-	Internal method

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

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MAIN APPLICATIONS

- Breathable membranes.
- Permanent antistatic additive.

PROCESSING CONDITIONS

Conditions	Typical values
Extrusion Melt Temperature (Min / Recommended / Max)	230°C / 250°C / 280°C
Injection Melt Temperature (Min / Recommended / Max)	230°C / 240°C / 260°C
Mold Temperature	25 – 60°C
Drying (only necessary for bags opened for more than two hours) Time Temperature	5 - 7 hours 70 - 90°C

PACKAGING

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