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/cm³	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 (*)	**1 10⁹**	Ω / sq	IEC 60093
Volume Resistivity (*)	**2 10⁹**	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.

PEBAX® BY ARKEMA

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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.

SHELF LIFE

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

See Safety Data Sheet for Health & Safety Considerations.

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