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.

特性	乾燥/調湿	単位	テスト基準
機械的特性			
引張弾性率	90 / 80	MPa	ISO 527-1/-2
	13100 / 11600	psi	
50%ひずみ時応力	13 / 12	MPa	ISO 527-1/-2
	1890 / 1740	psi	
破壊ひずみ	>50 / >50	%	ISO 527-1/-2
ショア硬さD, 15 s	40 / *	-	ISO 868
シャルピー衝撃強さ, +23°C	未破壊 / 未破壊	kJ/m²	ISO 179/1eU
シャルピー衝撃強さ, -30°C	未破壊 / 未破壊	kJ/m²	ISO 179/1eU
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊 / 未破壊	kJ/m²	ISO 179/1eA
熱的特性			
溶融温度, 10°C/min	204 / *	°C	ISO 11357-1/-3
ガラス転移点, 10°C/min	-40 / *	°C	ISO 11357-1/-2
電気的特性.			
体積抵抗率	- / 2E7	Ohm*m	IEC 62631-3-1
表面抵抗率	* / 1.5E9	Ohm	IEC 62631-3-2
その他の特性.			
吸水率, 23°C, immersion, equilibrium	120 / *	%	ISO 62
吸湿率	4.5 / *	%	ISO 62
密度	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.

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.

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Source: automatically generated TDS from Material Database on 20-02-2024

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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.

成形加工法

射出成形，フィルム押出成形，異形押出成形，
その他の押出成形，トランスファー成形，注型，熱成形

納入形状

ペレット

特殊な特性

帯電防止，熱安定化

領域別の利用可能性

北アメリカ.，ヨーロッパ.，アジア/太平洋地域.，
南・中央アメリカ.，近東/アフリカ

Headquarters:

Arkema France
420 rue d'Estienne d'Orves 92705
Colombes Cedex France
T +33 (0)1 49 00 80 80
hpp.arkema.com

Arkema Inc. – High Performance Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
hpp.arkema.com

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