

Pebax® MV 1074 SA 01 MED

TPA

ARKEMA

Polyether block amide **Pebax® MV 1074 SA 01 MED resin** is a thermoplastic elastomer made of flexible and hydrophilic polyether and rigid polyamide.

Hydrophilic **Pebax® MV 1074 SA 01 MED resin** is suitable for extrusion or coextrusion and offers excellent high moisture absorption properties in wet environments, enhancing lubricity against bodily tissue.

Pebax® MV 1074 SA 01 MED resin is also 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 grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. Upon request, letters regarding USP Class VI compliance can be provided.

Refractive index according to an internal method is 1.502.

Main applications:

- Breathable membranes
- Permanent antistatic additive
- Surgical tubings and garments

Packaging:

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

Shelf Life:

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

机械性能	干 / 湿	单位	试验方法
ISO数据			
拉伸模量	97 / 80	MPa	ISO 527
50%伸长率时的应力S	10 / 10	MPa	ISO 527
断裂伸长率	>50 / >50	%	ISO 527
断裂应力 TPE	30 / -	MPa	ISO 527
断裂应变. TPE	>300 / -	%	ISO 527
肖氏硬度D, 15s	38 / -	-	ISO 868

热性能	干 / 湿	单位	试验方法
ISO数据			
熔融温度, 10°C/min	158 / *	°C	ISO 11357-1/-3
玻璃化转变温度 (10°C/min)	-40 / *	°C	ISO 11357-1/-2
燃烧性 - 氧指数	19 / *	%	ISO 4589-1/-2

电性能	干 / 湿	单位	试验方法
ISO数据			
体积电阻率	1.5E9 / 2.5E7	Ohm*m	IEC 62631-3-1
表面电阻率	* / 3E9	Ohm	IEC 62631-3-2
介电强度	5 / -	kV/mm	IEC 60243-1

其它性能	干 / 湿	单位	试验方法
ISO数据			
吸湿性	1.4 / *	%	类似ISO 62
密度	1070 / -	kg/m³	ISO 1183

机械性能(薄膜)	干 / 湿	单位	试验方法
ISO数据			
最大应力, 平行	32 / *	MPa	ISO 527-3
最大应力, 平行	34 / *	MPa	ISO 527-3
最大应变, 平行	500 / *	%	ISO 527-3
最大应变, normal	700 / *	%	ISO 527-3

加工推荐 (注塑)	数值	单位	试验方法
预干燥-温度	65 - 75	°C	-
预干燥-时间	4 - 6	h	-
注塑熔体温度	200 - 270	°C	-

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模具温度

25 - 60

°C

-

特征

加工方法

注塑, 其它挤出成型

生态估价

医用级, US药物六级认证

特殊性能

防静电的, 经光稳处理的/耐光的, 经热稳处理的/耐热的

注塑

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 200°C / 240°C / 270°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

其它挤出成型

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.