

PEBAX®

MV 1074 SA 01

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

Pebax® MV 1074 SA 01 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 hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof .

This SA grade is specially designed to food uses.

Refractive index according to an internal method is 1.502.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	97 / 80	MPa	ISO 527-1/-2
	14100 / 11600	psi	
Stress at 50% Strain	10 / 10	MPa	ISO 527-1/-2
	1450 / 1450	psi	
Strain at Break	>50 / >50	%	ISO 527-1/-2
Strain at Break TPE	>300 / *	%	ISO 527-1/-2
Stress at Break TPE	30 / *	MPa	ISO 527-1/-2
	4350 / *	psi	
Shore D Hardness, after 15 s	38 / *	-	ISO 868
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	No Break / -	kJ/m ²	ISO 179/1eA
Maximum Stress, parallel	32 / *	MPa	ISO 527-3
	4640 / *	psi	
Maximum Stress, normal	34 / *	MPa	ISO 527-3
	4930 / *	psi	
Maximum Strain, parallel	500 / *	%	ISO 527-3
Maximum Strain, normal	700 / *	%	ISO 527-3
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	158 / *	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	-40 / *	°C	ISO 11357-1/-2
Oxygen Index	19 / *	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Volume Resistivity	1.5E9 / 2.5E7	Ohm* m	IEC 62631-3-1
Surface Resistivity	* / 3E9	Ohm	IEC 62631-3-2

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

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Dielectric (Electric) Strength	5 / -	kV/mm IEC 60243-1
	127 / -	kV/in

OTHER PROPERTIES

Humidity Absorption, 23°C, RH50%, equilibrium	1.4 / *	% ISO 62
Density	1070 / -	kg/m ³ ISO 1183
	1.07 / -	g/cm ³

MAIN APPLICATIONS:

- Breathable membranes
- Permanent antistatic additive
- Note: this grade is not recommended by Arkema for usage in medical applications. For such applications Pebax[®] SA 01 MED should be used

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.

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.

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.

PROCESSING

Injection Molding, Other Extrusion

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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