

Polyether block amide **PEBAX® MV 1041 SA 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. 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 and offering an excellent barrier layer to bacteria. This SA grade is specially designed to medical and food uses.

Main Characteristics	Value	Unit	Test Method
<b>Density</b>	<b>1.04</b>	g/cm <sup>3</sup>	ISO 1183
<b>Water Absorption at Equilibrium</b> At 20°C and 50 % RH	<b>0.9</b>	%	ISO 62
<b>Water Absorption</b> At 23°C and 24 h in water	<b>12</b>	%	
<b>Moisture Vapor Transmission Rate (MVTR)</b> Film thickness 15 µm; 38°C; 90% R.H. Film thickness 15 µm; 38°C; 50% R.H.	<b>2200</b> <b>8000</b>	g/m <sup>2</sup> /24h g/m <sup>2</sup> /24h	ASTM E 96 E ASTM E 96 BW
<b>Melting Point</b>	<b>170</b>	°C	ISO 11357
<b>Hardness Shore (*)</b> Instantaneous	<b>60</b>	Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>44</b> <b>450</b>	MPa %	ASTM D 638
<b>Flexural modulus (*)</b>	<b>270</b>	MPa	ISO 178

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

Processing Conditions	Typical Values
<b>Drying (*):</b> Time / Temperature	4-8 hours / 70-80°C
<b>Extrusion Temperature:</b> Cast film Blown film Coating	240-250°C 190-210°C 240-250°C

(\*) Pebax® is delivered dried in sealed packaging ready to be processed. Drying is only necessary for bags opened for more than 2 hours.

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