

**Product Texts**

Polyether block amide **Pebax® 4033 SA 01 MED** resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide. 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.

**Main applications:**

- Catheters
- Flexible injected parts

**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.

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>73 / 71</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 50% strain	<b>9 / 9</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Shore A hardness	<b>89 / *</b>	-	ISO 7619-1
<sup>[C]</sup> Shore D hardness	<b>35 / *</b>	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>160 / *</b>	°C	ISO 11357-1/-3

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>1.2 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.5 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1000 / 1000</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>60 - 70</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>200 - 270</b>	°C	-
Mold temperature	<b>10 - 30</b>	°C	-

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets

**Special Characteristics**

Light stabilized or stable to light, Heat stabilized or stable to heat

**Certifications**

Medical Grade, US Pharmacopeia Class VI Approved

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Other text information**

**Injection molding**

**Processing conditions:**

- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C.
- Typical mold temperature : 10 – 30°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 60-70°C.

**Other extrusion****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 60-70°C.