

**Product Texts**

Polyether block amide **Pebax® 2533 SA 01** resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses. Its chemical structure also enables the absorption and the controlled release of volatile molecules (fragrances, oils, insecticides...).

**Main applications:**

- Flexible injected parts
- Controlled release of volatile molecules (fragrances
- oils
- insecticides
- etc...)
- 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 or 550kg 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.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>12 / 10</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 50% strain	<b>3 / 3</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Stress at 10% elongation	<b>1 / *</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 100% elongation	<b>4 / *</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 300% elongation	<b>5 / *</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	<b>32 / *</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	<b>&gt;300 / *</b>	%	ISO 527
<sup>[C]</sup> Shore A hardness	<b>74 / *</b>	-	ISO 7619-1
<sup>[C]</sup> Shore D hardness	<b>22 / *</b>	-	ISO 7619-1

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>134 / *</b>	°C	ISO 11357-1/-3

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>1.2 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.4 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1000 / 1000</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>55 - 65</b>	°C	-
Pre-drying - Time	<b>4 - 8</b>	h	-
Melt temperature	<b>180 - 240</b>	°C	-
Mold temperature	<b>10 - 30</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

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

**Delivery form**

Pellets

**Certifications**

Food contact

**Additives**

Lubricants

**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) : 180°C / 210°C / 240°C.
- Typical mold temperature : 10 – 30°C.
- Drying time and temperature (only necessary for bags/containers opened for more than two hours) : 4-8 hours at 55-65°C.