

Product Texts

Polyether block amide **Pebax® 5533 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.

Pebax® 5533 SA 01 MED resin also offers an excellent combination of properties such as: kink resistance, low friction coefficient and superior dynamic response.

Upon request, letters regarding USP Class VI compliance can be provided.

Main applications:

- Tubings like angiography and angioplasty catheters
- Flexible injected parts

Packaging:

This grade is delivered dried in sealed packaging (20 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
ISO Data			
^[C] Tensile Modulus	170 / 161	MPa	ISO 527
^[C] Yield stress	12 / 12	MPa	ISO 527
^[C] Yield strain	25 / 25	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Shore D hardness	50 / *	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	159 / *	°C	ISO 11357-1/-3
^[C] Vicat softening temperature, B	66 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1010 / 1010	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	65 - 75	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	200 - 270	°C	-
Mold temperature	25 - 60	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Certifications

Medical Grade, US Pharmacopeia Class VI Approved

Delivery form

Pellets

Regional Availability

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

Special Characteristics

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

Other text information**Injection molding****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.

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 65-75°C.