

Product Texts

Polyether block amide **Pebax® 2533 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
ISO Data			
^[C] Tensile Modulus	12 / 10	MPa	ISO 527
^[C] Stress at 50% strain	3 / 3	MPa	ISO 527
^[C] Strain at break	>50 / >50	%	ISO 527
^[C] Stress at 10% elongation	1 / *	MPa	ISO 527
^[C] Stress at 100% elongation	4 / *	MPa	ISO 527
^[C] Stress at 300% elongation	5 / *	MPa	ISO 527
^[C] Stress at break TPE	32 / *	MPa	ISO 527
^[C] Strain at break TPE	>300 / *	%	ISO 527
^[C] Shore A hardness	74 / *	-	ISO 7619-1
^[C] Shore D hardness	22 / *	-	ISO 7619-1

[C]: CAMPUS

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

[C]: CAMPUS

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

[C]: CAMPUS

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

Characteristics

Processing

Injection Molding

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

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 opened for more than two hours) : 4-8 hours at 55-65°C.