

PEBAX® 4533 SA 01 MED

Polyether block amide **Pebax® 4533 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 CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	88 / 81	MPa	ISO 527-1/-2
Stress at 50% Strain	9 / 9	MPa	ISO 527-1/-2
Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore A Hardness, 3s	92 / *	-	ISO 7619-1
Shore D Hardness, 15s	41 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	147 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	111 / *	°C	ISO 306
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Humidity Absorption	0.4 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m ³	ISO 1183

MAIN APPLICATIONS: • Arterial 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.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C.

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- 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.

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.

PROCESSING

Injection Molding, Other Extrusion

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized

REGIONAL AVAILABILITY

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

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