

PEBAX® 2533 SA 01 MED

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:

- 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.

MAIN CHARACTERISTICS

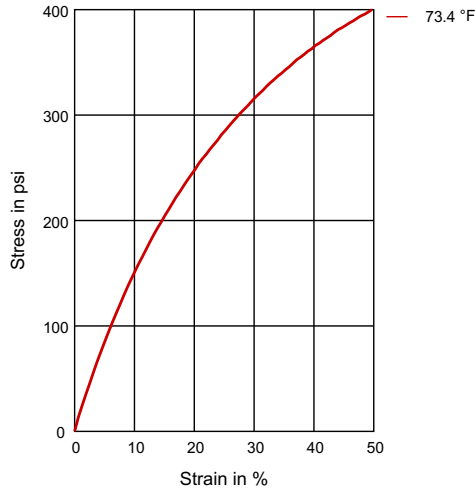
PROPERTIES	DRY / COND	UNIT	TEST STANDARD
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Tensile Modulus	1740 / 1450	psi	ISO 527-1/-2
Stress at 50% strain	435 / 435	psi	ISO 527-1/-2
Strain at break	> 50 / > 50	%	ISO 527-1/-2
Charpy impact strength, +23°C	N / N	ftlb/in ²	ISO 179/1eU
Charpy impact strength, -30°C	N / N	ftlb/in ²	ISO 179/1eU
Charpy notched impact strength, +23°C	N / N	ftlb/in ²	ISO 179/1eA
Charpy notched impact strength, -30°C	N / N	ftlb/in ²	ISO 179/1eA
Melting temperature, 10°C/min	273 / *	°F	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 50N	136 / *	°F	ISO 306
Water absorption	1.2 / *	%	Sim. to ISO 62
Humidity absorption	0.4 / *	%	Sim. to ISO 62
Density	1 / 1	g/cm ³	ISO 1183
Injection Molding, melt temperature	410	°F	ISO 294
Injection Molding, mold temperature	86	°F	ISO 10724
Stress at 10% elongation	145 / *	psi	ISO 527-1/-2
Stress at 100% elongation	580 / *	psi	ISO 527-1/-2
Stress at 300% elongation	725 / *	psi	ISO 527-1/-2
Strain at break TPE	> 300 / *	%	ISO 527-1/-2
Stress at break TPE	4640 / *	psi	ISO 527-1/-2
Shore A hardness, 3s	77 / *	-	ISO 7619-1
Shore D hardness, 15s	22 / *	-	ISO 7619-1

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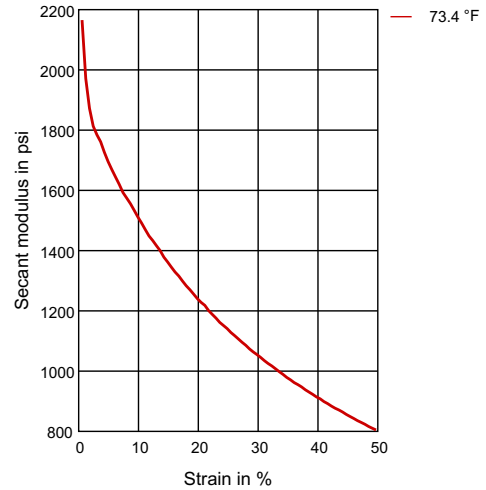
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Diagrams

Stress-strain



Secant modulus-strain



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.

Processing

Injection Molding

Delivery form

Pellets

Additives

Lubricants

Special Characteristics

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

Regional Availability

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

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