

PEBAX®

7433 SA 01 MED

Polyether block amide **7433 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® 7433 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 700	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	102000 / 30	MPa	ISO 527-1/-2
	- / 4350	psi	
Yield strain	- / 17	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Stress at Break TPE	46 / *	MPa	ISO 527-1/-2
	6670 / *	psi	
Abrasion Resistance	40.5 / *	mm ³	ISO 4649
Shore D Hardness	66 / *	-	ISO 868
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	- / 19	kJ/m ²	ISO 179/1eA
	- / 9.04	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
	- / 2.85	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	174 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	67 / *	°C	ISO 75-1/-2
	153 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	113 / *	°C	ISO 75-1/-2
	235 / *	°F	
Vicat Softening Temperature, 50°C/h 50N	129 / *	°C	ISO 306
	264 / *	°F	

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OTHER PROPERTIES

Water Absorption	1.43 / *	%	Sim. to ISO 62
Humidity Absorption	0.76 / *	%	Sim. to ISO 62
Density	1010 / -	kg/m³	ISO 1183
	1.01 / -	g/cm³	

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.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 260°C / 290°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 220°C / 235°C / 250°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°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