Pebax® 7433 SA 01 MED

TPA ARKEMA

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.

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			
Tensile Modulus	- / 700	MPa	ISO 527
Yield stress	- / 30	MPa	ISO 527
Yield strain	- / 17	%	ISO 527
Nominal strain at break	- / >50	%	ISO 527
Notched Impact Strength (Charpy), +23°C	- / 19	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	- / 6	kJ/m²	ISO 179/1eA
Stress at Break TPE	46 / -	MPa	ISO 527
Abrasion resistance	40.5 / -	mm³	ISO 4649
Shore Hardness D (15s)	66 / -	-	ISO 868

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
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
Temp. of deflection under load (0.45 MPa)	113 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	129 / *	°C	ISO 306

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	1.43 / *	%	Sim. to ISO 62
Humidity absorption	0.76 / *	%	Sim. to ISO 62
Density	1010 / -	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 80	°C	-
Pre-drying - Time	5 - 7	h	-
Melt temperature	230 - 290	°C	-
Mold temperature	25 - 60	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Special Characteristics
Light stabilized or stable to light, Heat aging stabilized

Delivery form
Pellets

Certifications
Medical, US Pharmacopeia Class VI Approved

Injection Molding

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.

Other Extrusion

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.

Disclaimer