

## 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
<b>ISO Data</b>			
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/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	- / 6	kJ/m <sup>2</sup>	ISO 179/1eA
Stress at Break TPE	46 / -	MPa	ISO 527
Abrasion resistance	40.5 / -	mm <sup>3</sup>	ISO 4649
Shore Hardness D (15s)	66 / -	-	ISO 868

Thermal Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
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
<b>ISO Data</b>			
Water Absorption	1.43 / *	%	Sim. to ISO 62
Humidity absorption	0.76 / *	%	Sim. to ISO 62
Density	1010 / -	kg/m <sup>3</sup>	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:

## **Pebax® 7433 SA 01 MED**

TPA

ARKEMA

- 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.
-