

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/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	- / 6	kJ/m ²	ISO 179/1eA
Stress at Break TPE	46 / -	MPa	ISO 527
Abrasion resistance	40.5 / -	mm ³	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/m ³	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

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

Healthcare uses: the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.