PEBAX® MED

TECHNICAL DATA SHEET

PEBAX® 7433 SA 01 MED

POLYETHER BLOCK AMIDE PELLET

PEBAX® 7433 SA 01 MED is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This grade offers the highest quality and is approved in medical applications. Upon request, letters regarding USP Class VI compliance can be provided.

TYPE

PEBA

POTENTIAL APPLICATIONS

- Medical

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Film Extrusion
- Injection Molding
- Tube Extrusion

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Shrinkage, parallel (t+24h)	0.8	%	ISO 294-4
Shrinkage, normal (t+24h)	1.5	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE*	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 610	MPa	ISO 178
Tensile modulus, 23°C (73°F)	- / 700	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	- / 30	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	- / 17	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	- / 46	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	- / > 250	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	- / No break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No break		ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 19	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6	kJ/m2	ISO 179 1eA
Hardness, shore D, 15 s	- / 66		ISO 868
Abrasion resistance	40.5 / -	mm^3	ISO 4649

* DRY / COND
DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

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THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	129	°C	ISO 306
Heat deflection temperature, 0.45 MPa	113	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	67	°C	ISO 75-1/-2
Melting temperature, 10°C/min	174	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Water absorption, at equilibrium at 23°C (73°F) / 50%RH	0.76	%	ISO 62
Density, 23°C (73°F)	1.01	g/cm³	ISO 1183-1
Water absorption, at equilibrium at 23°C (73°F) / Immersion	1.43	%	ISO 62

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING RECOMMENDATIONS

Please refer to specific grade's processing guidelines

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 260°C / 290°C (445°F / 500°F / 555°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying Conditions (only for bags opened for more than 2 hours): 70-80°C (160-175°F) / 4-6 hours

REGIONAL AVAILABILITY

Africa, Asia Pacific, Europe, Latin America and the Caribbean, Middle East, Northern America

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