

TECHNICAL DATA SHEET

PEBAX® 4533 SA 01 MED

POLYETHER BLOCK AMIDE PELLET

PEBAX® 4533 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.

DESIGNATION

PEBA

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Shrinkage, Parallel (t+24h)	0.6 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.1 %	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Hardness, Shore A, 15 s	- / 90	ISO 868
Hardness, Shore D, 15 s	- / 41	ISO 868
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)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	No Break / No Break	ISO 179 1eA
Stress at 50% strain, 23°C (73°F), 50 mm/min	9 / 9 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	88 / 81 MPa	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 86 MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 42 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 550 / > 550 %	ISO 527-1/-2

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

속성	값	테스트 표준
Melting temperature, 10°C/min	147 °C	ISO 11357-1/-3

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OTHER PROPERTIES

속성	값	테스트 표준
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.4 %	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	1.2 %	ISO 62
Specific gravity, 23°C (73°F)	1.01 g/cm ³	ISO 1183-1

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 26 kg / 55 lb bags

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 CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 210°C / 240°C / 270°C (410°F / 430°F / 520°F)
- Typical mold temperature - Injection molding: 10-30°C (50-90°F)
- Drying time and temperature: 60-70°C (140-160°F) / 4-8 hours

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