

TECHNICAL DATA SHEET

PEBAX® 2533 SD 02

POLYETHER BLOCK AMIDE PELLET

PEBAX® 2533 SD 02 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SD grade is heat & UV stabilized and contains mold release additive. It is used in sport and consumer applications.

DESIGNATION

PEBA

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

ADDITIVES

- Release agent

RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Shrinkage, Parallel (t+24h)	0.6 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.7 %	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Compression set	19 / - %	ISO 815
Hardness, Shore A, 15 s	- / 74	ISO 868
Hardness, Shore D, 15 s	- / 22	ISO 868
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / 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	3 / 3 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	12 / 10 MPa	ISO 527-1/-2
Abrasion resistance	130 / - mm³	ISO 4649
Flexural modulus, 23°C (73°F)	- / 12 MPa	ISO 178

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

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속성	값	테스트 표준
Glass transition temperature, 10°C/min	-65 °C	ISO 11357-1/-2
Heat deflection temperature, 0.45 MPa	42 °C	ISO 75-1/-2
Melting temperature, 10°C/min	134 °C	ISO 11357-1/-3

THERMAL PROPERTIES/ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Surface resistivity, 23°C (73,4°F)	- / 3.0E+12 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.3E+10 ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112
Dielectric stress, 23°C (73,4°F)	- / 36	IEC 60243-1
Relative permittivity, 100Hz	- / 6	IEC 60250
Relative permittivity, 1Mhz	- / 6	IEC 60250
Dissipation factor, 100Hz	- / 552	IEC 60250
Dissipation factor, 1Mhz	- / 552	IEC 60250

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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 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

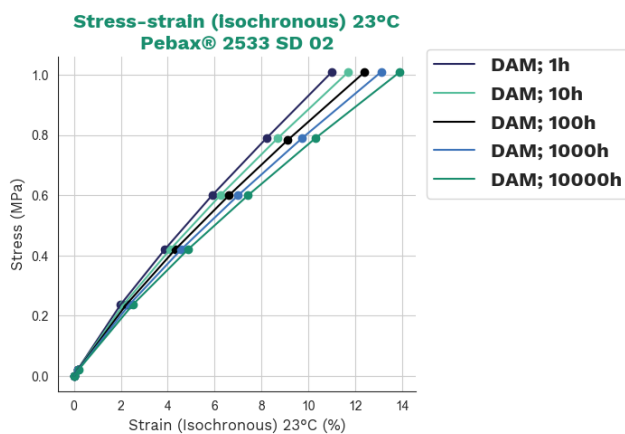
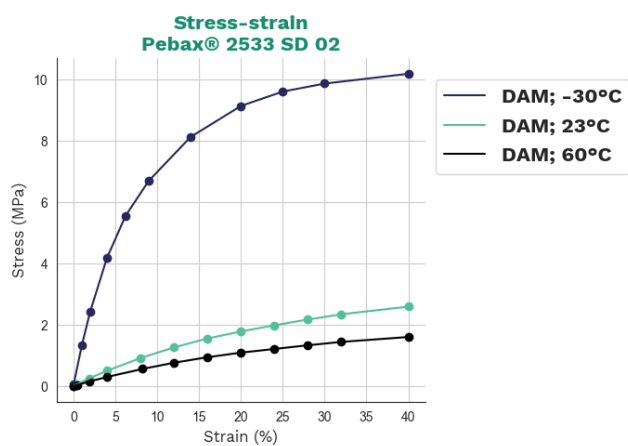
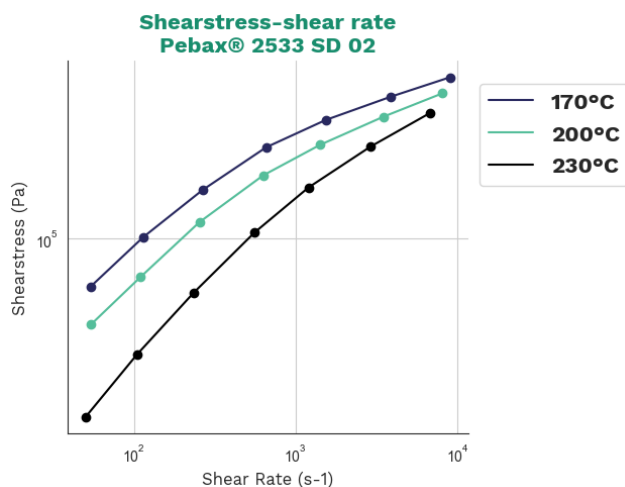
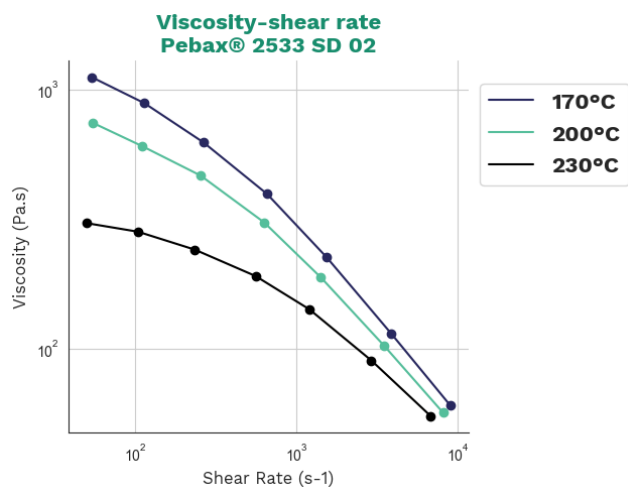
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 180°C / 210°C / 240°C (355°F / 410°F / 465°F)
- Typical mold temperature - Injection molding: 10-30°C (50-90°F)
- Drying time and temperature: 55-65°C (130-150°F) / 4-8 hours

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DIAGRAMS



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