

TECHNICAL DATA SHEET
PEBAX[®] 7033 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX[®] 7033 SP 01 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade is heat & UV stabilized. It is used in sport and consumer applications.

TYPE

PEBA

MAIN APPLICATIONS

- Winter Sports - Ski Boots
- Footwear - Outsole/Components

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

特性	价值	UNIT	测试标准
Shrinkage, Parallel (t+24h)	0.9	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.1	%	ISO 294-4

MECHANICAL PROPERTIES

特性	DRY / COND VALUE*	UNIT	测试标准
Hardness, Shore D, 15 s	- / 61		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, -30°C (-22°F)	- / 20	kJ/m2	ISO 179 1eA
Charpy notched impact strength, 23°C (73°F)	- / 120	kJ/m2	ISO 179 1eA
Tensile modulus, 23°C (73°F), 1 mm/min	414 / 384	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	22 / 20	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	23 / 22	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 350 / > 350	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 390	MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 54	MPa	ISO 527-1/-2
	41 / -	mm ³	ISO 4649

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

PEBAX® 7033 SP 01

COND: Conditionned.

THERMAL PROPERTIES

特性	价值	UNIT	测试标准
Vicat softening temperature, 50N at 50°C/h	106	°C	ISO 306
Heat deflection temperature, 0.45 MPa	99	°C	ISO 75-1/-2
Melting temperature, 10°C/min	172	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

特性	DRY / COND VALUE*	UNIT	测试标准
Surface resistivity, 23°C (73°F)	- / 4.0E+13	ohm/sq	IEC 62631-3-2
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112

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

OTHER PROPERTIES

特性	价值	UNIT	测试标准
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.7	%	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	1.1	%	ISO 62
Specific gravity, 23°C (73°F)	1.01	g/cm³	ISO 1183-1

包装

- Available packaging:
- 20 公斤 / 44 磅 袋
 - 25 公斤 / 55 磅 袋

保质期

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:

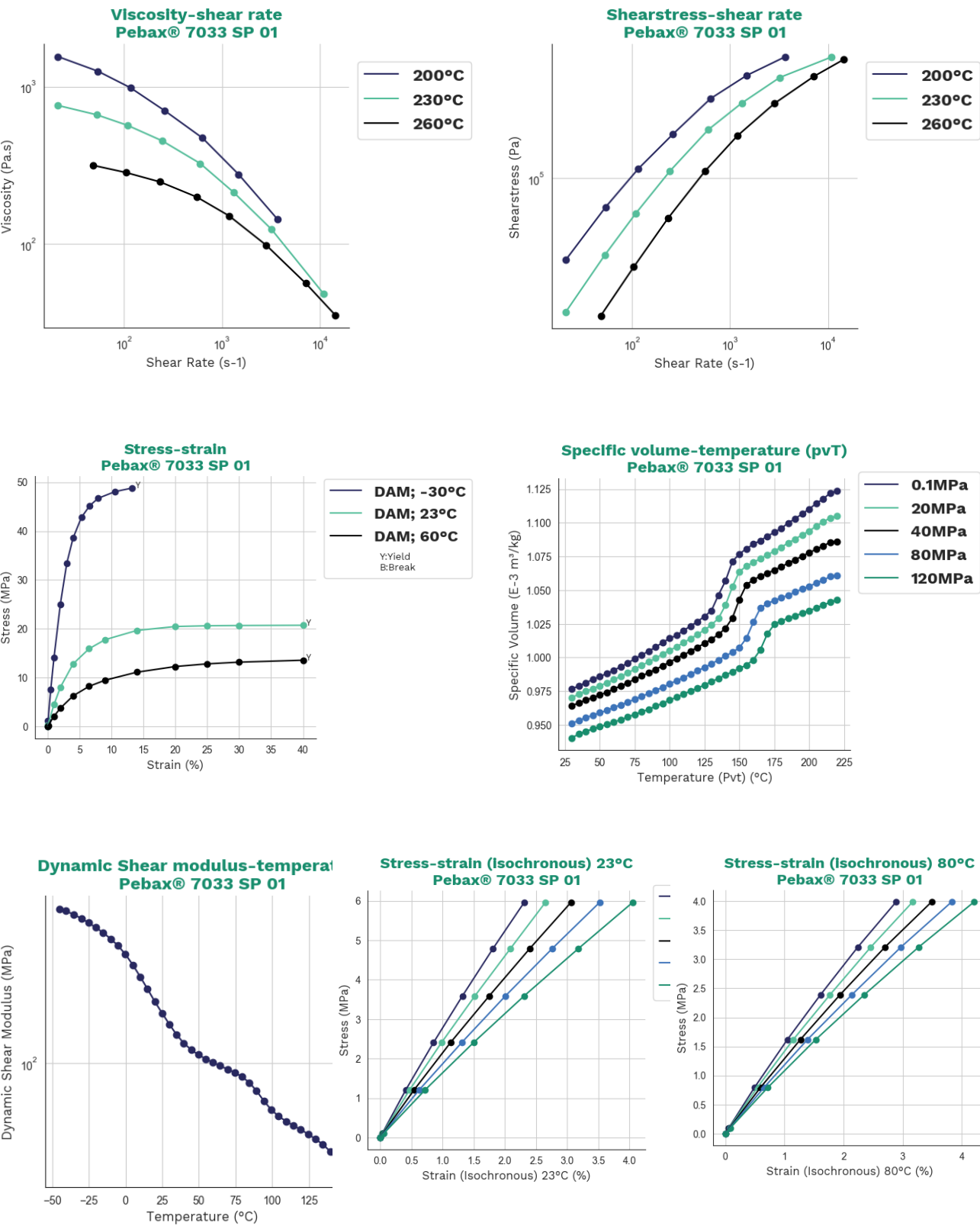
- 典型熔融温度 (最小/推荐/最大) ——注塑成型: 230°C / 260°C / 290°C (445°F / 500°F / 555°F)
- 典型模具温度——注塑成型: 20-60°C (70-140°F)
- Drying time and temperature: 70-80°C (160-175°F) / 4-6 hours

REGIONAL AVAILABILITY

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

PEBAX® 7033 SP 01

DIAGRAMS



PEBAX® 7033 SP 01

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