+135-3858-6433 (GuangDong)
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PEBAX®

TECHNICAL DATA SHEET

PEBAX® 6333 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX® 6333 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

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.1	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.2	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Compression set	47 / -	%	ISO 815
Hardness, Shore D, 15 s	- / 58		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)	- / 20	kJ/m2	ISO 179 1eA
Tensile modulus, 23°C (73°F), 1 mm/min	307 / 240	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	22 / 22	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	19 / 18	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)	- / 285	MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 53	MPa	ISO 527-1/-2
Taber abrasion	55 / -	mm^3	ISO 4649

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

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THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	85	°C	ISO 306
Heat deflection temperature, 0.45 MPa	90	°C	ISO 75-1/-2
Melting temperature, 10°C/min	169	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Surface resistivity, 23°C (73°F)	- / 1.0E+13	Ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 9.0E+11	Ohm.m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 42.5	kV/mm	IEC 60243-1
Relative permittivity, 100Hz	- / 9		IEC 62631-2-1
Relative permittivity, 1Mhz	- / 4		IEC 62631-2-1
Dissipation factor, 100Hz	1440 / -	E-4	IEC 62631-2-1
Dissipation factor, 1Mhz	757 / -	E-4	IEC 62631-2-1

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COND: Conditionned.

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
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

PACKAGING

Available packaging:
- 20 kg / 44 lb bags
- 25 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: 230°C / 260°C / 290°C (445°F / 500°F / 555°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 65-75°C (150-165°F) / 4-6 hours

REGIONAL AVAILABILITY

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

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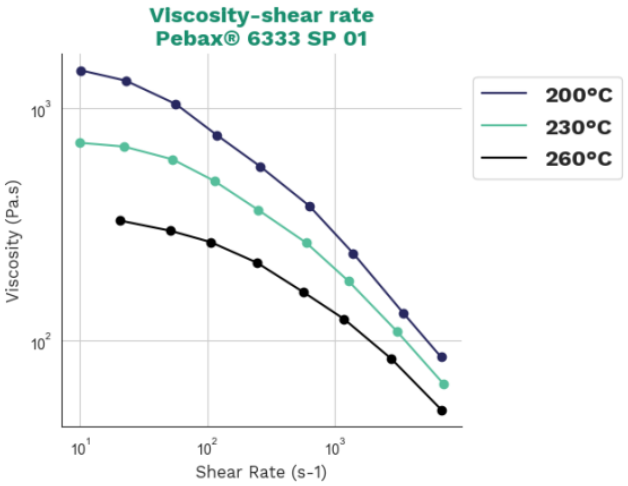
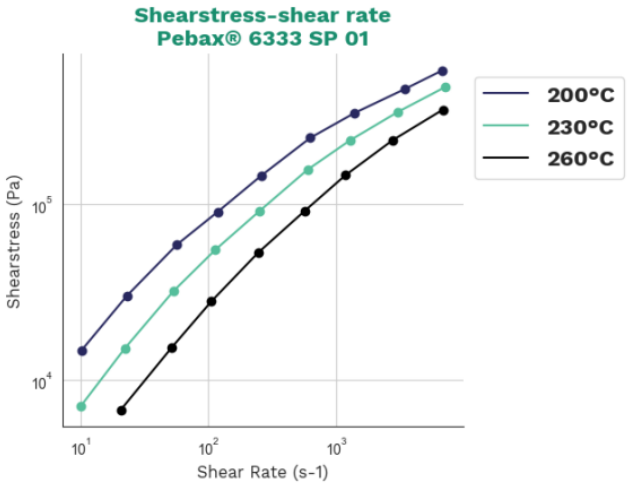
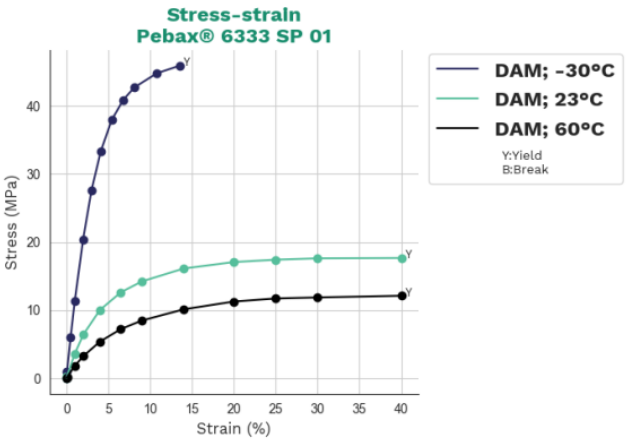
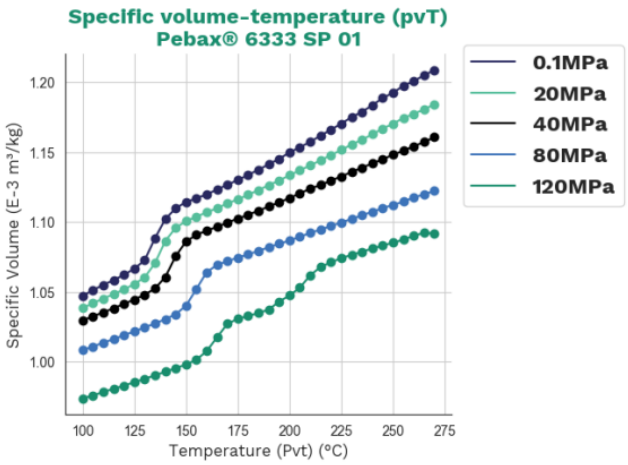
DIAGRAMS









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