

TECHNICAL DATA SHEET

PEBAX® 7233 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX® 7233 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.

DESIGNATION

PEBA

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Shrinkage, Parallel (t+24h)	0.8	%	ISO 294-4
Shrinkage, Normal (t+24h)	0.9	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
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
Nominal strain at break, 23°C (73°F), 50 mm/min	> 300 / > 300	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 18	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 26	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 510	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 15	kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 10	kJ/m ²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 513	MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 56	MPa	ISO 527-1/-2

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

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속성	값	UNIT	테스트 표준
Vicat softening temperature, 50N at 50°C/h	106	°C	ISO 306
Melting temperature, 10°C/min	174	°C	ISO 11357-1/-3

THERMAL PROPERTIES/ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Surface resistivity, 23°C (73°F)	- / 1.8E+14	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 8.0E+11	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 44.5		IEC 60243-1
Relative permittivity, 100Hz	- / 7		IEC 60250
Relative permittivity, 1Mhz	- / 4		IEC 60250
Dissipation factor, 100Hz	- / 1630		IEC 60250
Dissipation factor, 1Mhz	- / 1630		IEC 60250

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COND: Conditionned.

OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.7	%	ISO 62
Water absorption, 23°C (73°F), immersion, equilibrium	0.9	%	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:

- 20 kg / 44 lb 가방
- 24 kg / 55 lb 가방

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.

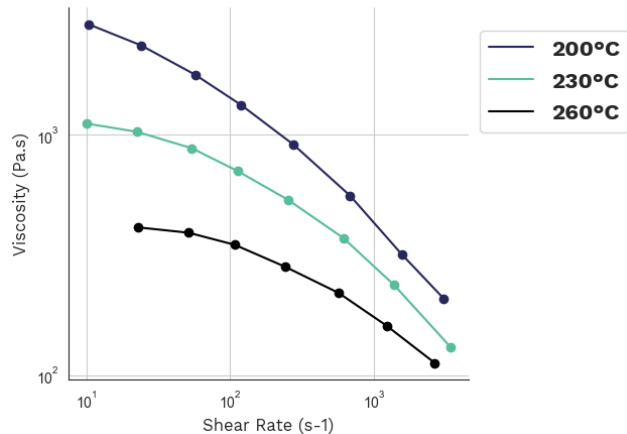
PROCESSING CONDITIONS:

- 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: 70-80°C (160-175°F) / 4-6 hours

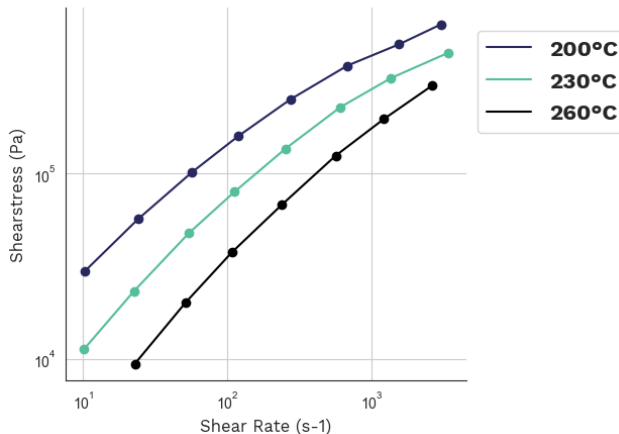
PEBAX® 7233 SP 01

DIAGRAMS

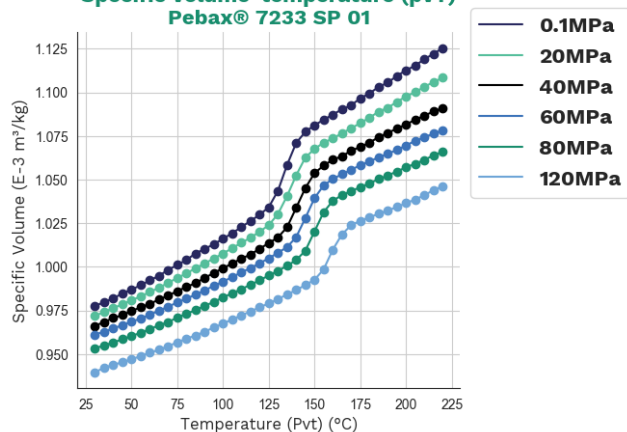
Viscosity-shear rate
Pebax® 7233 SP 01



Shearstress-shear rate
Pebax® 7233 SP 01



Specific volume-temperature (pvT)
Pebax® 7233 SP 01



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