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PEBAX®

TECHNICAL DATA SHEET

PEBAX® 7033 SA 01

POLYETHER BLOCK AMIDE PELLET

PEBAX® 7033 SA 01 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade offers the highest quality. It is used in sport and consumer applications, especially when food contact compliance is requested.

TYPE

PEBA

MAIN APPLICATIONS

- Industry - Others
- Industry - Distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	0.9	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.1	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
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	> 350 / > 350	%	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
Tensile modulus, 23°C (73°F), 1 mm/min	414 / 384	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 120	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 20	kJ/m2	ISO 179 1eA
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
Taber abrasion	41 / -	mm^3	ISO 4649

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	106	°C	ISO 306
Melting temperature, 10°C/min	172	°C	ISO 11357-1/-3

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ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
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

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: 70-80°C (160-175°F) / 4-6 hours

REGIONAL AVAILABILITY

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