

Pebax® 7033 SA 01

TPA

Pebax® 7033 SA 01 resin

Polyether block amide **Pebax® 7033 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is suitable for food contact applications.

Main applications:

- Athletic foot wear components.
- Food tubing.

Note: this grade is not recommended by Arkema for usage in medical applications. For such applications Pebax® SA 01 MED should be used.

Packaging:

This grade is delivered dried in sealed packaging (20 or 25 kg bags) ready to be processed.

Shelf Life:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Rheological properties

	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	1.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
Tensile Modulus	414 / 390	MPa	ISO 527-1/-2
Yield stress	23 / 22	MPa	ISO 527-1/-2
Yield strain	22 / 20	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength, +23°C	- / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	- / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	- / 120	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 20	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	172 / *	°C	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 50N	164 / *	°C	ISO 306

Other properties

	dry / cond	Unit	Test Standard
Water absorption	0.7 / *	%	Sim. to ISO 62
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1010 / -	kg/m ³	ISO 1183

Test specimen production

	Value	Unit	Test Standard
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 10724

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Mechanical properties (TPE)

Shore D hardness, 15s

dry / cond

61 / *

Unit

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Test Standard

ISO 7619-1

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 260°C / 290°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 220°C / 235°C / 250°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa