

# PEBAX® 3533 SA 01

Polyether block amide **Pebax® 3533 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide.  
This SA grade is specially designed to food uses.

## MAIN CHARACTERISTICS

| PROPERTIES                              | DRY / COND   | UNIT              | TEST STANDARD   |
|-----------------------------------------|--------------|-------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>           |              |                   |                 |
| Molding Shrinkage, parallel             | 0.5 / *      | %                 | ISO 294-4, 2577 |
| Molding Shrinkage, normal               | 0.8 / *      | %                 | ISO 294-4, 2577 |
| <b>MECHANICAL PROPERTIES</b>            |              |                   |                 |
| Tensile Modulus                         | 19 / 18      | MPa               | ISO 527-1/-2    |
| Stress at 50% Strain                    | 4 / 4        | MPa               | ISO 527-1/-2    |
| Strain at Break                         | > 50 / > 50  | %                 | ISO 527-1/-2    |
| Strain at Break TPE                     | > 300 / *    | %                 | ISO 527-1/-2    |
| Stress at Break TPE                     | 39 / *       | MPa               | ISO 527-1/-2    |
| Shore A Hardness, 3s                    | 82 / *       | -                 | ISO 7619-1      |
| Shore D Hardness, 15s                   | 25 / *       | -                 | ISO 7619-1      |
| Charpy Impact Strength, +23°C           | - / No Break | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy Impact Strength, -30°C           | - / No Break | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy Notched Impact Strength, +23°C   | - / No Break | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Notched Impact Strength, -30°C   | - / No Break | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>               |              |                   |                 |
| Melting Temperature, 10°C/min           | 144 / *      | °C                | ISO 11357-1/-3  |
| Vicat Softening Temperature, 50°C/h 50N | 77 / *       | °C                | ISO 306         |
| <b>OTHER PROPERTIES</b>                 |              |                   |                 |
| Water Absorption                        | 1.2 / *      | %                 | Sim. to ISO 62  |
| Humidity Absorption                     | 0.4 / *      | %                 | Sim. to ISO 62  |
| Density                                 | 1000 / 1000  | kg/m <sup>3</sup> | ISO 1183        |

**MAIN APPLICATIONS:** • Flexible injected parts

- 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 (25 kg bags) ready to be processed.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

**PEBAX®**  
BY **ARKEMA**

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# PEBAX® 3533 SA 01

## SHELF LIFE:

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

## Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 180°C / 210°C / 240°C.
- Typical mold temperature : 10 – 30°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 55-65°C.

## Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 190°C / 205°C / 220°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 55-65°C.

## PROCESSING

Injection Molding, Other Extrusion

## DELIVERY FORM

Pellets

## ADDITIVES

Lubricants

## SPECIAL CHARACTERISTICS

Heat Stabilized

## REGIONAL AVAILABILITY

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

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