

# PEBAX<sup>®</sup>

## 3533 SA 01

Polyether block amide **Pebax<sup>®</sup> 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	82 / *	-	ISO 868
Shore D Hardness	25 / *	-	ISO 868
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<sup>®</sup> SA 01 MED should be used

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## 3533 SA 01

### PACKAGING:

This grade is delivered dried in sealed packaging (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.

### 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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