

PEBAX[®]

4533 SA 01

Polyether block amide **Pebax[®] 4533 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
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	88 / 81	MPa	ISO 527-1/-2
Stress at 50% Strain	9 / 9	MPa	ISO 527-1/-2
Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore A Hardness	92 / *	-	ISO 868
Shore D Hardness	41 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	147 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	111 / *	°C	ISO 306
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Humidity Absorption	0.4 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m ³	ISO 1183

- MAIN APPLICATIONS:**
- Flexible injected parts
 - Note: this grade is not recommended by Arkema for use in medical applications. For such applications Pebax[®] SA 01 MED should be used
 - Silent gears
 - TPU processing aid

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®

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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) : 200°C / 240°C / 270°C
- Typical mold temperature : 10 – 30°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 60-70°C

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 60-70°C.

PROCESSING

Injection Molding, Other Extrusion

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized

REGIONAL AVAILABILITY

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

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