

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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.2 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	19 / 18	MPa	ISO 527-1/-2
	2760 / 2610	psi	
Stress at 50% Strain	4 / 4	MPa	ISO 527-1/-2
	580 / 580	psi	
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
	5660 / *	psi	
Shore A Hardness, after 15 s	80 / *	-	ISO 868
Shore D Hardness, after 15 s	25 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	144 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	1.2 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	0.4 / *	%	ISO 62
Density	1000 / 1000	kg/m³	ISO 1183
	1 / 1	g/cm³	

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.

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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) : 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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
DELIVERY FORM Pellets	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
ADDITIVES Lubricants	
SPECIAL CHARACTERISTICS Heat Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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