

PEBAX® 5533 SA 01

Polyether block amide **Pebax® 5533 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	1.2 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.4 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	170 / 165	MPa	ISO 527-1/-2
	24700 / 23900	psi	
Yield stress	12 / 12	MPa	ISO 527-1/-2
	1740 / 1740	psi	
Yield strain	25 / 25	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore D Hardness	50 / *	-	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	159 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	66 / *	°C	ISO 306
	151 / *	°F	
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Humidity Absorption	0.6 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m³	ISO 1183
	1.01 / 1.01	g/cm³	

MAIN APPLICATIONS:

- Flexible injected parts
- Dental floss
- Food tubing
- Note: this grade is not recommended by Arkema for usage in medical applications. For such applications Pebax® SA 01

PEBAX®

5533 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.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 65-75°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 65-75°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	