

# PEBAX®

## 5513 SA 01

Polyether block amide **Pebax® 5513 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. Added to PA6, **Pebax® 5513 SA 01 resin** enhances the properties of PA6, especially at low temperatures and low humidity content, at the same time maintaining the transparency of the nylon film and improving its soft touch. This SA grade is specially designed to food uses.

### MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Modulus</b>	- / 180	MPa	ISO 527-1/-2
<b>Yield stress</b>	14 / 13	MPa	ISO 527-1/-2
<b>Yield strain</b>	32 / 30	%	ISO 527-1/-2
<b>Nominal Strain at Break</b>	> 50 / > 50	%	ISO 527-1/-2
<b>Strain at Break TPE</b>	> 300 / *	%	ISO 527-1/-2
<b>Stress at Break TPE</b>	60 / *	MPa	ISO 527-1/-2
<b>Shore D Hardness</b>	54 / *	-	ISO 868
<b>Charpy Impact Strength, +23°C</b>	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Charpy Impact Strength, -30°C</b>	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Charpy Notched Impact Strength, +23°C</b>	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy Notched Impact Strength, -30°C</b>	- / 34	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
<b>Melting Temperature, 10°C/min</b>	195 / *	°C	ISO 11357-1/-3
<b>Vicat Softening Temperature, 50°C/h 50N</b>	169 / *	°C	ISO 306
<b>OTHER PROPERTIES</b>			
<b>Water Absorption</b>	6.7 / *	%	Sim. to ISO 62
<b>Humidity Absorption</b>	1.3 / *	%	Sim. to ISO 62
<b>Density</b>	1090 / 1090	kg/m <sup>3</sup>	ISO 1183

**MAIN APPLICATIONS:** • PA6 film additive

### PACKAGING:

This grade is delivered dried in sealed packaging (454 kg rigid containers) ready to be processed.

### SHELF LIFE:

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

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### Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 220°C / 240°C / 260°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for containers opened for more than two hours): 5-7 hours at 70-90°C.

### Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 220°C / 235°C / 250°C.
- Drying time and temperature (only necessary for containers opened for more than two hours): 5-7 hours at 70-90°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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