

Product Texts

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 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.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 180	MPa	ISO 527
^[C] Yield stress	14 / 13	MPa	ISO 527
^[C] Yield strain	32 / 30	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy notched impact strength, -30°C	- / 34	kJ/m ²	ISO 179/1eA
^[C] Stress at break TPE	60 / *	MPa	ISO 527
^[C] Strain at break TPE	>300 / *	%	ISO 527
^[C] Shore D hardness	54 / *	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	195 / *	°C	ISO 11357-1/-3
^[C] Vicat softening temperature, B	169 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	6.7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.3 / *	%	Sim. to ISO 62
^[C] Density	1090 / 1090	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 90	°C	-
Pre-drying - Time	5 - 7	h	-
Melt temperature	220 - 260	°C	-
Mold temperature	25 - 60	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Blending Resin

Delivery form
Pellets

Certifications
Food contact

Special Characteristics
Heat stabilized or stable to heat

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

Other text information**Injection molding****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.

Other extrusion**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.