

# 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Molding Shrinkage, parallel	0.7 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 180 - / 26100	MPa psi	ISO 527-1/-2
Yield Stress	14 / 13 2030 / 1890	MPa psi	ISO 527-1/-2
Yield Strain	32 / 30	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Strain at Break TPE	>300 / *	%	ISO 527-1/-2
Stress at Break TPE	60 / * 8700 / *	MPa psi	ISO 527-1/-2
Shore D Hardness, after 15 s	54 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 34 - / 16.2	kJ/m <sup>2</sup> ftlb/in <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	195 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	169 / * 336 / *	°C °F	ISO 306
<b>OTHER PROPERTIES</b>			
Water Absorption, 23°C, immersion, equilibrium	6.7 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	1.3 / *	%	ISO 62
Density	1090 / 1090 1.09 / 1.09	kg/m <sup>3</sup> g/cm <sup>3</sup>	ISO 1183

**MAIN APPLICATIONS:** • PA6 film additive

**PACKAGING:**

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SDC/11-2018  
 Source: automatically generated TDS from Material Database on 12-08-2024

# PEBAX<sup>®</sup>

## 5513 SA 01

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.

### 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.

<b>PROCESSING</b> 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
<b>DELIVERY FORM</b> Pellets	
<b>SPECIAL CHARACTERISTICS</b> Heat Stabilized	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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