

PEBAX®

5513 SP 01

Polyether block amide **Pebax® 5513 SP 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. Added to PA6, **Pebax® 5513 SP 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 SP grade has been developed to be heat and UV resistant.

MAIN CHARACTERISTICS

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

MAIN APPLICATIONS: • PA6 film additive

PACKAGING:

This grade is delivered dried in sealed packaging (20 kg and 25 kg bags and 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 bags/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 bags/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, Light Stabilized

REGIONAL AVAILABILITY

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

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ARKEMA

Arkema Inc - High Performance Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
hpp.arkema.com

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com