

PEBAX® 3533 SP 01

Polyether block amide Pebax® 3533 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade has been developed to be heat and UV resistant.

MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Water Absorption at Equilibrium At 20°C and 50 % R.H.	0.4	%	ISO 62
Water Absorption At 23°C and 24 h in water	1.2	%	
Melting Point	144	°C	ISO 11357
Vicat Point Under 1 daN	77	°C	ISO 306
Shrinkage (after 24 h, 4 mm, mold at 40°C) // ⊥	0.5 0.8	% %	Internal method
Hardness (*) Instantaneous After 15 s	82 / 33 80 / 25	Shore A / Shore D Shore A / Shore D	
Tensile Test (*) Stress at Break Strain at Break	39 >600	MPa %	ISO 527
Flexural Modulus (*)	21	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	No break No break No break No break	kJ/m ² kJ/m ² kJ/m ² kJ/m ²	ISO 179

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

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MAIN APPLICATIONS

- Flexible injected parts.
- High performance power transmission belts.
- Silent gears.
- Toy component.

PROCESSING CONDITIONS

Conditions	Typical values
Extrusion Melt Temperature (Min / Recommended / Max)	190°C / 205°C / 220°C
Injection Melt Temperature (Min / Recommended / Max)	180°C / 210°C / 260°C
Mold Temperature	10 – 30°C
Drying (only necessary for bags opened for more than two hours) Time Temperature	4 - 8 hours 55 - 65°C

PACKAGING

This grade is delivered dried in sealed packaging (25 kg bags and 550 kg rigid containers) ready to be processed.

SHELF LIFE

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

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See Safety Data Sheet for Health & Safety Considerations.