

PEBAX® 7233 SP 01

Polyether block amide Pebax® 7233 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	1.01	g/cm ³	ISO 1183
Water Absorption at Equilibrium At 20°C and 50 % R.H.	0.7	%	ISO 62
Water Absorption At 23°C and 24 h in water	0.9	%	
Melting Point	174	°C	ISO 11357
Vicat Point Under 1 daN	164	°C	ISO 306
Shrinkage (after 24 h, 4 mm, mold at 40°C) // ⊥	1.2 1.5	% %	Internal method
Hardness (*) Instantaneous After 15 s	69 61	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	56 >300	MPa %	ISO 527
Flexural Modulus (*)	510	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	No break No break 15 (c) 10 (c)	kJ/m ² kJ/m ² kJ/m ² kJ/m ²	ISO 179

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

(c) = Complete Break

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MAIN APPLICATIONS

- Athletic foot wear components.
- Ski shoes.
- Zip fasteners.
- Hook and loop fasteners.

PROCESSING CONDITIONS

Conditions	Typical values
Extrusion Melt Temperature (Min / Recommended / Max)	220°C / 235°C / 250°C
Injection Melt Temperature (Min / Recommended / Max)	230°C / 260°C / 290°C
Mold Temperature	25 – 60°C
Drying (only necessary for bags opened for more than two hours) Time Temperature	5 - 7 hours 70 - 80°C

PACKAGING

This grade is delivered dried in sealed packaging (20 kg or 25 kg bags) 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.