

Polyether block amide **PEBAX® 5533 SN 70 noir** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SN 70 grade is made conductive thanks to carbon black.

Main Characteristics	Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Water Absorption at Equilibrium at 20°C and 50 % RH	0.5	%	
Water Absorption at Saturation 24 h in water at 23°C	1.2	%	ISO 62
Melting Point	159	°C	ISO 11357
Hardness Shore (*) Instantaneous	60	Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	29 250	MPa %	ASTM D 638
Flexural Modulus (*)	290	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
Surface Resistivity (*)	10³ to 10⁴	Ω / sq	IEC 60093

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

Processing conditions	Typical values
Drying (*) : Time / Temperature	4-6 hours / 65-75°C
Injection Temperature : Min / Recommended / Max	200°C / 240°C / 270°C
Extrusion Temperature : Min / Recommended / Max	210°C / 220°C / 230°C
Mold Temperature :	25-60°C

(*) Pebax® is delivered dried in sealed packaging ready to be processed. Drying is only necessary for bags opened for more than 2 hours.

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