

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 <sup>3</sup>	ISO 1183
Water Absorption at Equilibrium at 20°C and 50 % RH	0.5	%	ISO 62
Water Absorption at Saturation 24 h in water at 23°C	1.2	%	
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 <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 179
Surface Resistivity (*)	10 <sup>3</sup> to 10 <sup>4</sup>	Ω / sq	

(\*) 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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