

Polyether block amide **PEBAX® 5533 SA 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses.

Main Characteristics	Value	Unit	Test Method
<b>Density</b>	<b>1.01</b>	g/cm <sup>3</sup>	ISO 1183
<b>Water Absorption at Equilibrium</b> At 20°C and 50 % RH	<b>0.6</b>	%	ISO 62
<b>Water Absorption</b> At 23°C and 24 h in water	<b>1.2</b>	%	
<b>Melting Point</b>	<b>159</b>	°C	ISO 11357
<b>Vicat Point</b> Under 1 daN	<b>142</b>	°C	ISO 306
<b>Shrinkage (after 24h, 4 mm, mould at 40°C)</b> // ⊥	<b>1.2</b> <b>1.4</b>	% %	Internal method
<b>Hardness Shore (*)</b> Instantaneous After 15 s	<b>54</b> <b>50</b>	Shore D Shore D	
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>52</b> <b>&gt;450</b>	MPa %	ASTM D 638
<b>Flexural Modulus (*)</b>	<b>170</b>	MPa	
<b>Charpy Impact</b> Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	<b>No break</b> <b>No break</b> <b>No break</b> <b>No break</b>	<b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b>	ISO 179

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

Processing Conditions	Typical Values
<b>Drying (*)</b> : Time / Temperature	4-6 hours / 65-75°C
<b>Injection Temperature</b> : Min / Recommended / Max	200°C / 240°C / 270°C
<b>Extrusion Temperature</b> : Min / Recommended / Max	210°C / 220°C / 230°C
<b>Mold Temperature</b> :	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.