

Polyether block amide **Pebax® Rnew 55R53 SP 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

Note that this document is a **temporary** data sheet.

Main Characteristics	Value	Unit	Test Method
<b>Percentage of Renewable Carbon (calculation)</b>	<b>62-66</b>	%	ASTM 6866
<b>Density</b>	<b>1.03</b>	g/cm <sup>3</sup>	ISO 1183
<b>Melting Point</b>	<b>167</b>	°C	ISO 11357
<b>Hardness Shore (*)</b> Instantaneous After 15 s	<b>53</b> <b>51</b>	Shore D Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>45</b> <b>&gt;400</b>	MPa %	ISO 527
<b>Tensile Modulus (*)</b>	<b>145</b>	MPa	ISO 527

(\*) 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.