

Polyether block amide **Pebax® Rnew 63R53 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.

Main Characteristics	Value	Unit	Test Method
<b>Percentage of Renewable Carbon (calculation)</b>	<b>77-81</b>	%	ASTM 6866
<b>Density</b>	<b>1.03</b>	g/cm <sup>3</sup>	ISO 1183
<b>Water Absorption at Equilibrium</b> at 20°C and 50 % RH	<b>0.8</b>	%	ISO 62
<b>Water Absorption at Saturation</b> 24 h in water at 23°C	<b>1.5</b>	%	
<b>Melting Point</b>	<b>180</b>	°C	ISO 11357
<b>Vicat Point</b> Under 1 daN	<b>168</b>	°C	ISO 306
<b>Hardness Shore (*)</b> Instantaneous After 15 s	<b>61</b> <b>56</b>	Shore D Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>51</b> <b>&gt;400</b>	MPa %	ISO 527
<b>Flexural Modulus (*)</b>	<b>243</b>	MPa	ISO 178
<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>22<sup>(c)</sup></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; (c) = Complete Break

Processing Conditions	Typical Values
<b>Drying (*):</b> Time / Temperature	4-6 hours / 65-75°C
<b>Injection Temperature:</b> Min / Recommended / Max	230°C / 260°C / 290°C
<b>Extrusion Temperature:</b> Min / Recommended / Max	210°C / 225°C / 240°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.

DPT/TDS/55479/ March 2009

The information contained in this document is based on trials carried out by our Research Centres and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.