

## Pebax® RNEW 30R51 SA 01

TPA

### Pebax® RNEW 30R51 SA 01 resin

Polyether block **Pebax® RNEW 30R51 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. The percentage of renewable carbon according to ASTM D 6866 is **41%**.

**Pebax® Rnew 30R51 SA 01 resin** is an inherently dissipative polymer and can be dry blended or compounded with a polymer matrix to lower the surface resistivity of the final part. This grade is particularly recommended for PMMA matrices. This hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	- / <b>59</b>	MPa	ISO 527-1/-2
Stress at 50% strain	- / <b>7</b>	MPa	ISO 527-1/-2
Strain at break	- / <b>&gt;50</b>	%	ISO 527-1/-2

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Melting temperature, 10°C/min	<b>150 / *</b>	°C	ISO 11357-1/-3

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>20 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.5 / *</b>	%	Sim. to ISO 62
Density	<b>1010 / -</b>	kg/m <sup>3</sup>	ISO 1183

<b>Mechanical properties (TPE)</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Shore D hardness, 15s	<b>30 / *</b>	-	ISO 868

### Characteristics

#### Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa