

Polyether block amide **PEBAX® RDG 277** is a thermoplastic elastomer made of flexible polyether and rigid polyamide reinforced with glass fibers.

Main Characteristics	Value	Unit	Test Method
<b>Density</b>	<b>1.12</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 at Saturation</b> 24 h in water at 23°C	<b>1.0</b>	%	
<b>Melting Point</b>	<b>174</b>	°C	ISO 11357
<b>Vicat Point</b> Under 1 daN	<b>170</b>	°C	ISO 306
<b>Hardness Shore (*)</b> Instantaneous After 15 s	<b>71</b> <b>68</b>	Shore D Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Break Strain at Break	<b>45</b> <b>17</b>	MPa %	ASTM D 638
<b>Flexural Modulus (*)</b>	<b>1500</b>	MPa	ISO 178
<b>Charpy Impact</b> V-notched -30°C	<b>7.3</b>	kJ/m <sup>2</sup>	ISO 179
<b>Abrasion (*)</b> DIN 10 N / 40 m TABER H 18 / 1 kg / 1000 rotations	<b>115</b> <b>90</b>	mm <sup>3</sup> mm	ISO 4649 ISO 9352

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

Processing Conditions	Typical Values
<b>Drying (*)</b> : Time / Temperature	6-8 hours / 70-80°C
<b>Injection Temperature</b> : Min / Recommended / Max	240°C / 270°C / 300°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.