

Polyether block amide **PEBAX® 6333 SP 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade has been developed to be heat and UV resistant, with improved properties compared to SN grades.

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>0.7</b>	%	ISO 62
<b>Water absorption at saturation</b> 24 h in water at 23°C	<b>1.1</b>	%	
<b>Melting point</b>	<b>169</b>	°C	ISO 11357
<b>Vicat point</b> Under 1 daN	<b>157</b>	°C	ISO 306
<b>Hardness Shore (*)</b> Instantaneous	<b>64</b>	Shore D	ISO 868
After 15 s	<b>58</b>	Shore D	
<b>Tensile test (*)</b> Stress at Break	<b>53</b>	MPa	ASTM D 638
Strain at Break	<b>&gt;350</b>	%	
<b>Flexural modulus (*)</b>	<b>285</b>	MPa	ISO 178
<b>Charpy Impact</b> unnotched 23°C	<b>No break</b> <b>No break</b> <b>No break</b> <b>20<sup>(c)</sup></b>	kJ/m <sup>2</sup>	ISO 179
unnotched -30°C		kJ/m <sup>2</sup>	
V-notched 23°C		kJ/m <sup>2</sup>	
V-notched -30°C		kJ/m <sup>2</sup>	

(\*) 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

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