

**Product Texts**

PA610 flexible, high viscosity extrusion grade. Plasticized. Heat stabilized. Natural colour.

Suitable for extrusion of tubes and profiles. Typical application: air pressure pipes. This grade is partially renewably-sourced (64% of base polymer by weight).

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>750 / 530</b>	MPa	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>25 / 35</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>6 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>215 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>50 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>136 / *</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>130 / *</b>	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>1E13 / 1E11</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>* / 1E10</b>	Ohm	IEC 62631-3-2

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>2.5 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>1.1 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1100 / -</b>	kg/m <sup>3</sup>	ISO 1183
Biobased content	<b>60</b>	%	-

[C]: CAMPUS

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.1</b>	%	-
Melt temperature	<b>230 - 260</b>	°C	-
Mold temperature	<b>70 - 80</b>	°C	-

**Characteristics**

**Processing**

Injection Molding, Pipe/Tube Extrusion, Profile Extrusion

**Special Characteristics**

Heat stabilized or stable to heat

**Delivery form**

Granules, Natural Color

**Certifications**

Contains renewable resources

**Additives**

Plasticizer

**Regional Availability**

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

**Other text information**

**Injection molding**

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best

processing is 0.10%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

**Injection Molding Processing Parameters**

Melt Temperature 230 - 260°C	Mold Temperature 70 - 80°C	Injection Speed medium
Extrusion Temperature 240 - 290°C		