

**Promyde® B30 P N**

PA6

Nurel S.A.

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>145 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>275 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-
Molding shrinkage, parallel	<b>1.3 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>1.2 / *</b>	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>3200 / 1100</b>	MPa	ISO 527
Tensile Strength	<b>85 / 40</b>	MPa	ISO 527
Yield strain	<b>3.5 / 25</b>	%	ISO 527
Strain at break	<b>18 / &gt;50</b>	%	ISO 527
Flexural modulus, 23°C	<b>2700 / 1000</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>5.5 / 30</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>222 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>65 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>197 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>70 / *</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>100 / *</b>	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>3.5 / 7</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>230 / 3000</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>1E13 / 1E10</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>* / 1E10</b>	Ohm	IEC 62631-3-2
Comparative tracking index	<b>600 / 600</b>	-	IEC 60112
<b>Other properties</b>			
Water absorption	<b>9.5 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>3 / *</b>	%	Sim. to ISO 62
Density	<b>1130 / -</b>	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>ISO Data</b>			
Viscosity number	<b>145 / *</b>	cm <sup>3</sup> /g	ISO 307, 1157, 1628

**Characteristics****Processing**

Injection Molding

**Additives**

Lubricants

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Low Warpage

**Regional Availability**

Europe