

**Promyde® B40 P2 U0**

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	14 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	3900 / 1600	MPa	ISO 527
Tensile Strength	90 / 45	MPa	ISO 527
Yield strain	4 / 25	%	ISO 527
Strain at break	7 / >50	%	ISO 527
Flexural modulus, 23°C	3500 / 1300	MPa	ISO 178
Flexural strength	116 / 50	MPa	ISO 178
Charpy impact strength, +23°C	70 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	60 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	80 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	200 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.5	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Comparative tracking index	600 / -	-	IEC 60112
<b>Other Standards<sup>S1</sup></b>			
Relative permittivity, 1MHz	3.5 / 7	-	IEC 60250
Dissipation factor, 1MHz	300 / 3000	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E10	Ohm	IEC 60093
S: These properties are reported by the producer according standards that are different to our defaults.			
<b>Other properties</b>			
<b>dry / cond</b>			
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>dry / cond</b>			
<b>ISO Data</b>			
Viscosity number	263 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>			
Pre-drying - Temperature	<80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	260 - 280	°C	-

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Mold temperature	<b>40 - 80</b>	°C	-
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<b>Processing Recommendation Extrusion</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>230 - 280</b>	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Special Characteristics**

Flame retardant, Halogen-free, Heat stabilized or stable to heat

**Additives**

Lubricants

**Regional Availability**

Europe