

Promyde® B30 NC 100

PA6

Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	145 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	4000 / 2000	MPa	ISO 527
Tensile Strength	100 / 52	MPa	ISO 527
Yield strain	3.5 / 25	%	ISO 527
Strain at break	4 / 25	%	ISO 527
Flexural modulus, 23°C	3500 / 1400	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4.3 / 10	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	100 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	1.5	mm	-
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.6 / 6.5	-	IEC 62631-2-1
Dissipation factor, 1MHz	250 / 2500	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	500 / 500	-	IEC 60112
Other properties			
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	132 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Injection Molding

Features

Nucleated

Additives

Lubricants

Regional Availability

Europe

Special Characteristics

Heat stabilized or stable to heat