

Promyde® B15U

PA6

Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	260 / *	cm ³ /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

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3300 / 1100	MPa	ISO 527
Tensile Strength	85 / 40	MPa	ISO 527
Yield strain	3.5 / 25	%	ISO 527
Strain at break	18 / >50	%	ISO 527
Flexural modulus, 23°C	2800 / 1000	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	320 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	65 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	187 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	1.5	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.5 / 7	-	IEC 62631-2-1
Dissipation factor, 1MHz	300 / 3000	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	600 / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	120 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Injection Molding

Features

Nucleated

Additives

Lubricants

Applications

Packaging

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Regional Availability

Europe