

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14 / *	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	3400 / 1100	MPa	ISO 527
Tensile Strength	90 / 40	MPa	ISO 527
Yield strain	4 / 25	%	ISO 527
Strain at break	70 / 0	%	ISO 527
Flexural modulus, 23°C	2900 / 1000	MPa	ISO 178
Flexural strength	115 / 30	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.2 / 38	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	223 / *	°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	197 / *	°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
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	600 / -	-	IEC 60112
Other Standards^{S1}			
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.

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	263 / *	cm ³ /g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	260 - 290	°C	-
Mold temperature	40 - 80	°C	-

Characteristics

Promyde® B40 BR1

PA6

Nurel S.A.

Processing

Injection Molding

Features

Nucleated

Additives

Lubricants

Regional Availability

Europe