

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	135 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8300 / 5000	MPa	ISO 527
Tensile Strength	95 / 40	MPa	ISO 527
Strain at break	2.5 / 5	%	ISO 527
Flexural modulus, 23°C	7200 / 3500	MPa	ISO 178
Flexural strength	180 / 90	MPa	ISO 178
Charpy impact strength, +23°C	60 / 80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.5 / 25	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	190 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60 / *	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	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	600 / -	-	IEC 60112
Other Standards^[5]			
Relative permittivity, 1MHz	3.7 / 6.8	-	IEC 60250
Dissipation factor, 1MHz	230 / 2200	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	6.9 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	250 - 270	°C	-
Mold temperature	40 - 80	°C	-

Characteristics

Processing

Injection Molding

Applications

Electrical and Electronical

Promyde® B300 P2 G20 U0

PA6-GF20

Nurel S.A.

Additives

Lubricants, Release agent

Regional Availability

Europe

Special Characteristics

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