

Promyde® B300 P2 G50

PA6-GF50

Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	37 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	17000 / 10000	MPa	ISO 527
Tensile Strength	230 / 160	MPa	ISO 527
Strain at break	3 / 3.5	%	ISO 527
Flexural modulus, 23°C	15500 / 8500	MPa	ISO 178
Flexural strength	370 / 195	MPa	ISO 178
Charpy impact strength, +23°C	105 / 130	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20 / 30	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	215 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	13 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	500 / -	-	IEC 60112
Other Standards^[5]			
Relative permittivity, 1MHz	4.2 / 6.3	-	IEC 60250
Dissipation factor, 1MHz	140 / 1400	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	4.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1560 / -	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	235 - 260	°C	-
Mold temperature	40 - 80	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe