Promyde® B300 P

PA6 Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**300 / ***	cm³/10min	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	**3200 / 1100**	MPa	ISO 527
Tensile Strength	**85 / 40**	MPa	ISO 527
Yield strain	**4 / 25**	%	ISO 527
Strain at break	**10 / >50**	%	ISO 527
Flexural modulus, 23°C	**2800 / 1000**	MPa	ISO 178
Flexural strength	**115 / 40**	MPa	ISO 178
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5 / 40**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**4 / -**	kJ/m²	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
Burning behav. at 1.5 mm nom. thickn.	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
Glow Wire Flammability Index (GWFI)	**750**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1.5**	mm	-
Glow Wire Ignition Temperature (GWIT)	**700**	°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[S]			
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/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**<80**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Melt temperature	**230 - 280**	°C	-
Mold temperature	**40 - 80**	°C	-

Characteristics

Promyde® B300 P

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Processing
Injection Molding

Features
Nucleated

Additives
Lubricants

Applications
Automotive, Electrical and Electronical

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
Europe