

Promyde® B300 P2 M40

PA6-MX40

Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	300 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6600 / 3000	MPa	ISO 527
Tensile Strength	90 / 60	MPa	ISO 527
Strain at break	3 / 7	%	ISO 527
Flexural modulus, 23°C	6300 / 3000	MPa	ISO 178
Flexural strength	130 / 100	MPa	ISO 178
Charpy notched impact strength, +23°C	3.5 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3 / -	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	160 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	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.	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	3.9 / 6.2	-	IEC 60250
Dissipation factor, 1MHz	180 / 1800	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	5.4 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1450 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	100 / *	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	250 - 290	°C	-
Mold temperature	40 - 80	°C	-

Characteristics**Processing**

Injection Molding

Applications

Electrical and Electronical

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Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe