

Promyde® B30 P2 G45 MI

PA6-GF45

Nurel S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20 / *	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			
ISO Data			
Tensile Modulus	14300 / 9300	MPa	ISO 527
Tensile Strength	210 / 130	MPa	ISO 527
Strain at break	2.5 / 8	%	ISO 527
Flexural modulus, 23°C	11900 / 7000	MPa	ISO 178
Charpy impact strength, +23°C	95 / 120	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	17 / 40	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210 / *	°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	10 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	45 / *	E-6/K	ISO 11359-1/-2
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	4 / 5	-	IEC 62631-2-1
Dissipation factor, 1MHz	200 / 1800	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	500 / 500	-	IEC 60112
Other properties			
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1500 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Injection Molding

Features

Thermal Stability

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

Europe