

Promyde® B30 P2 G25 WR

PA6-GF25

Nurel S.A.

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|-------------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 25 / * | cm ³ /10min | ISO 1133 |
| Temperature | 275 / * | °C | - |
| Load | 5 / * | kg | - |
| Molding shrinkage, parallel | 0.3 / * | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.5 / * | % | ISO 294-4, 2577 |

| Mechanical properties | dry / cond | Unit | Test Standard |
|---------------------------------------|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 7600 / 5700 | MPa | ISO 527 |
| Tensile Strength | 130 / 90 | MPa | ISO 527 |
| Strain at break | 3.1 / 4.5 | % | ISO 527 |
| Flexural modulus, 23°C | 6500 / 4500 | MPa | ISO 178 |
| Flexural strength | 170 / 125 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 75 / 85 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 12 / 30 | kJ/m ² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|---|-------------------|-------------|----------------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 220 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 200 / * | °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 | 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. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | - |

| Electrical properties | dry / cond | Unit | Test Standard |
|--------------------------------------|-------------------|-------------|----------------------|
| ISO Data | | | |
| Comparative tracking index | 550 / - | - | IEC 60112 |
| Other Standards^[5] | | | |
| Relative permittivity, 1MHz | 4 / 7 | - | IEC 60250 |
| Dissipation factor, 1MHz | 240 / 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 | 5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.6 / * | % | Sim. to ISO 62 |
| Density | 1220 / - | 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 | 260 - 290 | °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