

# Pocan<sup>®</sup> B3233HRLT

## PBT—GF30

30% Glass Reinforced, Injection Molding, Hydrolysis resistant, Laser Weldable, Laser Transparent Black

| PROPERTIES                                   | TYPICAL DATA | UNIT              | TEST METHOD    |
|----------------------------------------------|--------------|-------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                | <b>VALUE</b> |                   |                |
| Molding shrinkage (normal)                   | 0.8          | %                 | ISO 294-4      |
| Molding shrinkage (parallel)                 | 0.3          | %                 | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>                 | <b>VALUE</b> |                   |                |
| Tensile modulus                              | 10000        | MPa               | ISO 527-1/-2   |
| Stress at break                              | 140          | MPa               | ISO 527-1/-2   |
| Strain at break                              | 2.8          | %                 | ISO 527-1/-2   |
| Flexural modulus                             | 9600         | MPa               | ISO 178        |
| Flexural strength                            | 230          | MPa               | ISO 178        |
| Flexural strain at flexural strength         | 3.2          | %                 | ISO 178-A      |
| Charpy impact strength (+23°C)               | 60           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Izod impact strength (+23°C)                 | 53           | kJ/m <sup>2</sup> | ISO 180/1U     |
| <b>THERMAL PROPERTIES</b>                    | <b>VALUE</b> |                   |                |
| Melting temperature (10°C/min)               | 225          | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa)    | 190          | °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) | 0.2          | E-4/°C            | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal)   | 1            | E-4/°C            | ISO 11359-1/-2 |
| <b>ELECTRICAL PROPERTIES</b>                 | <b>VALUE</b> |                   |                |
| Comparative tracking index                   | 275          | V                 | IEC 60112      |

Property Data

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| PROPERTIES                               | TYPICAL DATA | UNIT  | TEST METHOD          |
|------------------------------------------|--------------|-------|----------------------|
| <b>OTHER PROPERTIES</b>                  |              |       |                      |
| Density                                  | 1520         | kg/m³ | ISO 1183             |
| <b>PROCESSING RECOMMENDATIONS</b>        |              |       |                      |
| Drying temperature circulating air dryer | 120          | °C    |                      |
| Drying time circulating air dryer        | 4–8          | h     |                      |
| Residual moisture content                | 0.00–0.02    | %     | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax)           | 260–280      | °C    |                      |
| Mold temperature                         | 60–80        | °C    |                      |