

Pocan<sup>®</sup> TFN4230

(PBT+PET)—GF25 FR(40)

25% Glass Fiber Reinforced, Injection Molding, Flame Retardant (halogen free)

Print Date: 2025-10-04

| PROPERTIES                                   | TYPICAL DATA | UNIT   | TEST METHOD     |
|--|--------------|--------|-----------------|
| RHEOLOGICAL PROPERTIES                       |              | VALUE  |                 |
| Molding shrinkage (normal)                   | 0.9          | %      | ISO 294-4       |
| Molding shrinkage (parallel)                 | 0.4          | %      | ISO 294-4       |
| MECHANICAL PROPERTIES                        |              | VALUE  |                 |
| Tensile modulus                              | 10300        | MPa    | ISO 527-1/-2    |
| Stress at break                              | 100          | MPa    | ISO 527-1/-2    |
| Strain at break                              | 1.8          | %      | ISO 527-1/-2    |
| Flexural modulus                             | 10400        | MPa    | ISO 178         |
| Flexural strength                            | 160          | MPa    | ISO 178         |
| Flexural strain at flexural strength         | 1.8          | %      | ISO 178-A       |
| Charpy impact strength (+23°C)               | 30           | kJ/m²  | ISO 179/1eU     |
| Charpy impact strength (-30°C)               | 25           | kJ/m²  | ISO 179/1eU     |
| Izod impact strength (+23°C)                 | 27           | kJ/m²  | ISO 180/1U      |
| THERMAL PROPERTIES                           |              | VALUE  |                 |
| Temp. of deflection under load (1.80 MPa)    | 200          | °C     | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | 220          | °C     | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 0.3          | E-4/°C | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 0.9          | E-4/°C | ISO 11359-1/-2  |
| Burning Behav. at 0.75 mm nom. thickn.       | V-0          | class  | IEC 60695-11-10 |
| Thickness tested                             | 0.75         | mm     | IEC 60695-11-10 |
| Burning Behav. at 1.5 mm nom. thickn.        | V-0          | class  | IEC 60695-11-10 |
| Thickness tested                             | 1.5          | mm     | IEC 60695-11-10 |

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| Burning Behav. at 3.0 mm nom. thickn. | V-0          | class | IEC 60695-11-10 |
| Thickness tested                      | 3            | mm    | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI     | 960          | °C    | IEC 60695-2-12  |
| GWFI (Thickness (1) tested)           | 0.75         | mm    | IEC 60695-2-12  |
| Glow Wire Flammability Index GWFI     | 960          | °C    | IEC 60695-2-12  |
| GWFI (Thickness (2) tested)           | 1.5          | mm    | IEC 60695-2-12  |
| Glow Wire Ignition Temperature GWIT   | 800          | °C    | IEC 60695-2-13  |
| GWIT (Thickness (1) tested)           | 0.75         | mm    | IEC 60695-2-13  |
| Glow Wire Ignition Temperature GWIT   | 800          | °C    | IEC 60695-2-13  |
| GWIT (Thickness (2) tested)           | 1.5          | mm    | IEC 60695-2-13  |
| Glow Wire Ignition Temperature GWIT   | 825          | °C    | IEC 60695-2-13  |
| GWIT (Thickness (3) tested)           | 3            | mm    | IEC 60695-2-13  |

| ELECTRICAL PROPERTIES            | VALUE |       |               |
|----------------------------------|-------|-------|---------------|
| Volume resistivity               | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity              | >1E15 | Ohm   | IEC 62631-3-2 |
| Electric strength                | 42    | kV/mm | IEC 60243-1   |
| Comparative tracking index       | 475   | V     | IEC 60112     |
| Comparative tracking index (PLC) | 1     | class | UL 746A       |

| OTHER PROPERTIES | VALUE |       |          |
|------------------|-------|-------|----------|
| Density          | 1580  | kg/m³ | ISO 1183 |

| PROCESSING RECOMMENDATIONS               | VALUE     |    |                      |
|--|-----------|----|----------------------|
| 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)           | 260-270   | °C |                      |
| Mold temperature                         | 80-100    | °C |                      |

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Property Data

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|-----------------------------------|--------------|------|-------------|
| admissible residence time at Tmax | <5           | min  |             |

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