

# Xytron™ G4010T

## PPS–GF40

40% Glass Reinforced, Flame Retardant, Improved flow

Print Date: 2024–11–12

| PROPERTIES                     | TYPICAL DATA | UNIT  | TEST METHOD  |
|--------------------------------|--------------|-------|--------------|
| <b>RHEOLOGICAL PROPERTIES</b>  |              |       |              |
|                                | VALUE        |       |              |
| Molding shrinkage (parallel)   | 0.2          | %     | ISO 294–4    |
| Molding shrinkage (normal)     | 0.5          | %     | ISO 294–4    |
| <b>MECHANICAL PROPERTIES</b>   |              |       |              |
|                                | VALUE        |       |              |
| Tensile modulus                | 15000        | MPa   | ISO 527–1/–2 |
| Tensile modulus (120°C)        | 7300         | MPa   | ISO 527–1/–2 |
| Tensile modulus (160°C)        | 5200         | MPa   | ISO 527–1/–2 |
| Tensile modulus (200°C)        | 3400         | MPa   | ISO 527–1/–2 |
| Stress at break                | 200          | MPa   | ISO 527–1/–2 |
| Stress at break (120°C)        | 105          | MPa   | ISO 527–1/–2 |
| Stress at break (160°C)        | 73           | MPa   | ISO 527–1/–2 |
| Stress at break (200°C)        | 55           | MPa   | ISO 527–1/–2 |
| Strain at break                | 2            | %     | ISO 527–1/–2 |
| Strain at break (120°C)        | 3.1          | %     | ISO 527–1/–2 |
| Strain at break (160°C)        | 3.9          | %     | ISO 527–1/–2 |
| Strain at break (200°C)        | 6.4          | %     | ISO 527–1/–2 |
| Flexural modulus               | 14500        | MPa   | ISO 178      |
| Flexural strength              | 300          | MPa   | ISO 178      |
| Flexural modulus (120°C)       | 10000        | MPa   | ISO 178      |
| Flexural modulus (160°C)       | 5000         | MPa   | ISO 178      |
| Flexural modulus (200°C)       | 4200         | MPa   | ISO 178      |
| Charpy impact strength (+23°C) | 56           | kJ/m² | ISO 179/1eU  |
| Charpy impact strength (–30°C) | 57           | kJ/m² | ISO 179/1eU  |

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## Property Data

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|--|--------------|-------------------|-------------|
| Charpy notched impact strength (+23°C) | 10           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Izod impact strength (+23°C)           | 48           | kJ/m <sup>2</sup> | ISO 180/1U  |
| Izod notched impact strength (+23°C)   | 10.5         | kJ/m <sup>2</sup> | ISO 180/1A  |
| Rockwell hardness, R scale             | 121          | –                 | ISO 2039-2  |
| Rockwell hardness, M scale             | 100          | –                 | ISO 2039-2  |

| THERMAL PROPERTIES                                | VALUE |        |                 |
|---|-------|--------|-----------------|
| Melting temperature (10°C/min)                    | 280   | °C     | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)         | 265   | °C     | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel)      | 0.15  | E-4/°C | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)        | 0.4   | E-4/°C | ISO 11359-1/-2  |
| Coef. of lin. therm expansion, parallel, above Tg | 0.15  | E-4/°C | ISO 11359-1/-2  |
| Coef. of lin. therm expansion, normal, above Tg   | 1.1   | E-4/°C | ISO 11359-1/-2  |
| Burning Behav. at 1.5 mm nom. thickn.             | V-0   | class  | IEC 60695-11-10 |
| Thickness tested                                  | 1.5   | mm     | IEC 60695-11-10 |
| UL recognition                                    | Yes   | –      | –               |
| Burning Behav. at 3.0 mm nom. thickn.             | V-0   | class  | IEC 60695-11-10 |
| Thickness tested                                  | 3     | mm     | IEC 60695-11-10 |
| UL recognition                                    | Yes   | –      | –               |
| Relative Temperature Index – electrical           | 130   | °C     | UL746B          |
| RTI electrical (Thickness (1) tested)             | 0.8   | mm     | UL746B          |

| ELECTRICAL PROPERTIES        | VALUE |       |                 |
|------------------------------|-------|-------|-----------------|
| Volume resistivity           | >1E13 | Ohm*m | IEC 62631-3-1   |
| Electric strength            | 31    | kV/mm | IEC 60243-1     |
| Comparative tracking index   | 175   | V     | IEC 60112       |
| Dissipation factor (5GHz)    | 55    | E-4   | IEC 61189-2-721 |
| Relative permittivity (5GHz) | 4     | –     | IEC 61189-2-721 |

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| <i>PROPERTIES</i>       | <i>TYPICAL DATA</i> | <i>UNIT</i>       | <i>TEST METHOD</i> |
|-------------------------|---------------------|-------------------|--------------------|
| <b>OTHER PROPERTIES</b> | <b>VALUE</b>        |                   |                    |
| Density                 | 1650                | kg/m <sup>3</sup> | ISO 1183           |
| Humidity absorption     | 0.04                | %                 | Sim. to ISO 62     |

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