

# Xytron™ U3020E

## PPS—I

*Extrusion, Impact Modified*

Print Date: 2025-12-11

| PROPERTIES                                   | TYPICAL DATA | UNIT   | TEST METHOD    |
|--|--------------|--------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                | <b>VALUE</b> |        |                |
| Molding shrinkage (parallel)                 | 1.2          | %      | ISO 294-4      |
| Molding shrinkage (normal)                   | 1.3          | %      | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>                 | <b>VALUE</b> |        |                |
| Tensile modulus                              | 2850         | MPa    | ISO 527-1/-2   |
| Yield stress                                 | 67           | MPa    | ISO 527-1/-2   |
| Stress at break                              | 60           | MPa    | ISO 527-1/-2   |
| Strain at break                              | 9            | %      | ISO 527-1/-2   |
| Flexural modulus                             | 2700         | MPa    | ISO 178        |
| Flexural strength                            | 90           | MPa    | ISO 178        |
| Flexural modulus (120°C)                     | 360          | MPa    | ISO 178        |
| Flexural modulus (160°C)                     | 240          | MPa    | ISO 178        |
| Flexural modulus (200°C)                     | 200          | MPa    | ISO 178        |
| Charpy impact strength (+23°C)               | N            | kJ/m²  | ISO 179/1eU    |
| Charpy impact strength (-30°C)               | 20           | kJ/m²  | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 11           | kJ/m²  | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)       | 3.5          | kJ/m²  | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                    | <b>VALUE</b> |        |                |
| Melting temperature (10°C/min)               | 280          | °C     | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa)    | 102          | °C     | ISO 75-1/-2    |
| Coeff. of linear therm. expansion (parallel) | 0.6          | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal)   | 0.65         | E-4/°C | ISO 11359-1/-2 |

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| PROPERTIES  | TYPICAL DATA | UNIT   | TEST METHOD     |
|---|--------------|--------|-----------------|
| Coef. of lin. therm expansion, parallel, above Tg | 1.1          | E-4/°C | ISO 11359-1/-2  |
| Coef. of lin. therm expansion, normal, above Tg   | 1.4          | E-4/°C | ISO 11359-1/-2  |
| Burning Behav. at 1.5 mm nom. thickn.             | V-2          | class  | IEC 60695-11-10 |
| Burning Behav. at 3.0 mm nom. thickn.             | V-0          | class  | IEC 60695-11-10 |

| ELECTRICAL PROPERTIES        | VALUE |       |                 |
|------------------------------|-------|-------|-----------------|
| Volume resistivity           | >1E13 | Ohm*m | IEC 62631-3-1   |
| Electric strength            | 41    | kV/mm | IEC 60243-1     |
| Dissipation factor (5GHz)    | 23    | E-4   | IEC 61189-2-721 |
| Relative permittivity (5GHz) | 3.2   | —     | IEC 61189-2-721 |

| OTHER PROPERTIES | VALUE |       |          |
|------------------|-------|-------|----------|
| Density          | 1290  | kg/m³ | ISO 1183 |

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