

# Akulon<sup>®</sup> RePurposed RE BK00003

## PA6

Recycled Content

Print Date: 2024-11-06

### Sustainability

Recycled based

| PROPERTIES                                | TYPICAL DATA | UNIT              | TEST METHOD     |
|-------------------------------------------|--------------|-------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |              |                   |                 |
| <i>DRY / COND</i>                         |              |                   |                 |
| Molding shrinkage (parallel)              | 1.1 / *      | %                 | ISO 294-4       |
| Molding shrinkage (normal)                | 1.1 / *      | %                 | ISO 294-4       |
| <b>MECHANICAL PROPERTIES</b>              |              |                   |                 |
| <i>DRY / COND</i>                         |              |                   |                 |
| Tensile modulus                           | 3000 / 1100  | MPa               | ISO 527-1/-2    |
| Stress at 50% strain                      | 35 / -       | MPa               | ISO 527-1/-2    |
| Nominal strain at break                   | 14 / >50     | %                 | ISO 527-1/-2    |
| Yield stress                              | 70 / 45      | MPa               | ISO 527-1/-2    |
| Yield strain                              | 3 / -        | %                 | ISO 527-1/-2    |
| Flexural modulus                          | 2800 / 1000  | MPa               | ISO 178         |
| Flexural strength                         | 110 / 40     | MPa               | ISO 178         |
| Charpy impact strength (+23°C)            | 50 / N       | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)    | 5 / 16       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>                 |              |                   |                 |
| <i>DRY / COND</i>                         |              |                   |                 |
| Melting temperature (10°C/min)            | 220 / *      | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa) | 60 / *       | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa) | 150 / *      | °C                | ISO 75-1/-2     |
| Burning Behav. at 1.5 mm nom. thickn.     | HB / *       | class             | IEC 60695-11-10 |
| Thickness tested                          | 1.6 / *      | mm                | IEC 60695-11-10 |

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| <i>PROPERTIES</i>                     | <i>TYPICAL DATA</i>      | <i>UNIT</i>       | <i>TEST METHOD</i> |
|---------------------------------------|--------------------------|-------------------|--------------------|
| Burning Behav. at 3.0 mm nom. thickn. | HB / *                   | class             | IEC 60695-11-10    |
| Thickness tested                      | 3.2 / *                  | mm                | IEC 60695-11-10    |
| Glow Wire Flammability Index GWFI     | 725 / –                  | °C                | IEC 60695-2-12     |
| GWFI (Thickness (1) tested)           | 0.75 / –                 | mm                | IEC 60695-2-12     |
| Glow Wire Flammability Index GWFI     | 675 / –                  | °C                | IEC 60695-2-12     |
| GWFI (Thickness (2) tested)           | 3 / –                    | mm                | IEC 60695-2-12     |
| <b><i>ELECTRICAL PROPERTIES</i></b>   | <b><i>DRY / COND</i></b> |                   |                    |
| Comparative tracking index            | 575 / –                  | V                 | IEC 60112          |
| <b><i>OTHER PROPERTIES</i></b>        | <b><i>DRY / COND</i></b> |                   |                    |
| Water absorption                      | 9 / *                    | %                 | Sim. to ISO 62     |
| Humidity absorption                   | 2.5 / *                  | %                 | Sim. to ISO 62     |
| Density                               | 1140 / –                 | kg/m <sup>3</sup> | ISO 1183           |