

## Akulon® RePurposed RE BK00003

PA6

Recycled Content

## Sustainability

Recycled based – mechanical

| Properties                                | Typical Data | Unit              | Test Method    |
|-------------------------------------------|--------------|-------------------|----------------|
| <b>Rheological properties</b>             |              |                   |                |
|                                           | dry / cond   |                   |                |
| Molding shrinkage (parallel)              | 1.1 / *      | %                 | ISO 294-4      |
| Molding shrinkage (normal)                | 1.1 / *      | %                 | ISO 294-4      |
| <b>Mechanical properties</b>              |              |                   |                |
|                                           | dry / cond   |                   |                |
| Tensile modulus                           | 3000 / -     | MPa               | ISO 527-1/-2   |
| Nominal strain at break                   | 14 / -       | %                 | ISO 527-1/-2   |
| Yield stress                              | 70 / -       | MPa               | ISO 527-1/-2   |
| Yield strain                              | 3 / -        | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)            | N / -        | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 6 / -        | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>Thermal properties</b>                 |              |                   |                |
|                                           | dry / cond   |                   |                |
| 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    |
| 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 |



Property Data (Provisional)

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| Properties                   | Typical Data          | Unit              | Test Method    |
|------------------------------|-----------------------|-------------------|----------------|
| <b>Electrical properties</b> |                       |                   |                |
| Comparative tracking index   | dry / cond<br>575 / - | V                 | IEC 60112      |
| <b>Other properties</b>      |                       |                   |                |
| Water absorption             | dry / cond<br>9 / *   | %                 | Sim. to ISO 62 |
| Humidity absorption          | 2.5 / *               | %                 | Sim. to ISO 62 |
| Density                      | 1140 / -              | kg/m <sup>3</sup> | ISO 1183       |

