

# Akulon® Fuel Lock FL40-HPX2 PA6-I

Low fuel permeation PA6 suitable for use in blow molding

| Properties                                   | Typical Data      | Unit              | Test Method    |
|----------------------------------------------|-------------------|-------------------|----------------|
| <b>Rheological properties</b>                | <b>dry / cond</b> |                   |                |
| Molding shrinkage (parallel)                 | 1.6 / *           | %                 | ISO 294-4      |
| Molding shrinkage (normal)                   | 1.5 / *           | %                 | ISO 294-4      |
| <b>Mechanical properties</b>                 | <b>dry / cond</b> |                   |                |
| Tensile modulus                              | 2150 / 550        | MPa               | ISO 527-1/-2   |
| Stress at break                              | 46 / -            | MPa               | ISO 527-1/-2   |
| Nominal strain at break                      | >50 / >50         | %                 | ISO 527-1/-2   |
| Yield stress                                 | 54 / -            | MPa               | ISO 527-1/-2   |
| Yield strain                                 | 3.8 / -           | %                 | ISO 527-1/-2   |
| Flexural modulus                             | 2000 / 520        | MPa               | ISO 178        |
| Flexural strength                            | 75 / 22           | MPa               | ISO 178        |
| Charpy impact strength (+23°C)               | N / N             | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (-30°C)               | N / N             | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 90 / N            | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)       | 22 / 21           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>Thermal properties</b>                    | <b>dry / cond</b> |                   |                |
| Temp. of deflection under load (1.80 MPa)    | 55 / *            | °C                | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)    | 100 / *           | °C                | ISO 75-1/-2    |
| Coeff. of linear therm. expansion (parallel) | 1.5 / *           | E-4/°C            | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal)   | 0.9 / *           | E-4/°C            | ISO 11359-1/-2 |

## Other properties

dry / cond



## Property Data

# Akulon<sup>®</sup> Fuel Lock FL40-HPX2

| Properties          | Typical Data | Unit              | Test Method    |
|---------------------|--------------|-------------------|----------------|
| Water absorption    | 7.4 / *      | %                 | Sim. to ISO 62 |
| Humidity absorption | 2.9 / *      | %                 | Sim. to ISO 62 |
| Density             | 1080 / -     | kg/m <sup>3</sup> | ISO 1183       |

