

Ertalon LFX is ideal for heavy loads at low speed.

|                                  |                        |
|----------------------------------|------------------------|
| ISO                              | PA polyamide           |
| Shape                            | Rod                    |
| Color                            | Green                  |
| Temperature Range                | -20 and 90 °C          |
| <a href="#">tbl_temp_melting</a> | 215 °C                 |
| Density                          | 1135 kg/m <sup>3</sup> |
| Hardness                         | 82 Rockwell M          |
| Elongation at break              | 25 %                   |
| Tensile strength                 | 73 N/mm <sup>2</sup>   |
| Flame Resistance (UL 94)         | HB                     |

## Material information

Ertalon LFX is a self-lubricating material suitable for heavily loaded sliding elements that move slowly. There is low friction and very good wear resistance.

## Usage examples

For example, applied as a sliding element in a telescopic crane and various other moving applications.

Measurement tolerance 2768-mK

## Item Overview

| Item Code | Item Name                        | Width (mm) | Length (mm) |
|-----------|----------------------------------|------------|-------------|
| 70300500  | PA Ertalon LFX groen staf 50 mm  |            | 1.000       |
| 70300600  | PA Ertalon LFX groen staf 60 mm  |            | 1.000       |
| 70300750  | PA Ertalon LFX groen staf 75 mm  |            | 1.000       |
| 70300900  | PA Ertalon LFX groen staf 90 mm  |            | 1.000       |
| 70301000  | PA Ertalon LFX groen staf 100 mm |            | 1.000       |
| 70301500  | PA Ertalon LFX groen staf 150 mm |            | 1.000       |
| 70302200  | PA Ertalon LFX groen staf 220 mm |            | 1.000       |

## Water absorption

The extent to which the product absorbs water when tested for 24 hours in water at 23 degrees in accordance with ISO 63.

### Immersion Saturation

0,660 % 6,300 %

## Thermal properties

[tbl\\_thermal\\_explainer](#)

[tbl\\_thermische\\_geleiding](#) [tbl\\_lin\\_uitzet\\_2360](#) [tbl\\_lin\\_uitzet\\_23100](#) [tbl\\_temp\\_deflection\\_load](#)

0,280 W/(K.m) 80 x 10<sup>-6</sup> m/(m.K) 90 x 10<sup>-6</sup> m/(m.K) 75 °C



## Mechanical properties

[tbl\\_mechanical\\_explainer](#)

| <a href="#">tbl_tension_norm</a> | <a href="#">tbl_tension_stress_yield</a> | <a href="#">tbl_tension_strain_yield</a> | <a href="#">tbl_tension_strain_break</a> | <a href="#">tbl_modulus_elasticity</a> |
|----------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------|
| ISO 527-1/-2                     | 73 MPa                                   | 5 %                                      | 25 %                                     | 3.000 MPa                              |

## Impact tests

[tbl\\_charpy\\_izod\\_explainer](#)

| <a href="#">tbl_charpy_impact</a> | <a href="#">tbl_charpy_unnotched</a> | <a href="#">tbl_charpy_notched</a> | <a href="#">tbl_izod_impact</a> | <a href="#">tbl_izod_impact_notched</a> |
|-----------------------------------|--------------------------------------|------------------------------------|---------------------------------|-----------------------------------------|
| ISO 179-1                         | 50 KJ/m <sup>2</sup>                 | 4 KJ/m <sup>2</sup>                | ISO 179-1                       | 0                                       |

## Dynamische Coefficient of Friction

[tbl\\_dcf\\_explainer](#)

| <a href="#">tbl_dcf</a> | <a href="#">tbl_dcf_min</a> | <a href="#">tbl_dcf_max</a> | <a href="#">tbl_dcf_wear</a> |
|-------------------------|-----------------------------|-----------------------------|------------------------------|
| ISO 179-1 0             | 0                           | 0                           | 0 µm/km                      |

## Electrical properties

Tests related to the electrical resistivity and conductivity of the material.

| Electric strength    | Volume resistance        | Surface resistance        |
|----------------------|--------------------------|---------------------------|
| IEC 60243-1 22 kV/mm | IEC 60093 >10E 14 Ohm.cm | IEC 60093 >10E 13 Ohm/sq. |

## Related materials

| Code | Group Name                | Shape | Color |
|------|---------------------------|-------|-------|
| 649  | PA Ertalon LFX            | Sheet | Green |
| 703  | PA Ertalon LFX groen staf | Rod   | Green |

We provide product information as known by us with great care. We cannot accept any liability for errors and/or inaccuracies and/or incompleteness. Please note that our products are intended for professional use only. For high impact applications and/or combinations of limit values we always recommend to have the properties specific to that situation verified by us. If there are multiple specifications for a product we will use the standard of 2mm or the closest specification.

