

## PROVISIONAL TECHNICAL DATA SHEET

### LARIPUR E 2102-90 AE

**GENERAL DESCRIPTION** LARIPUR E 2102-90 AE is a high-quality polycaprolactone-based TPU. Combining a very good hydrolysis resistance with excellent mechanical properties, this product is particularly suitable for extrusion of hoses, profiles, transmission belts and films as well as for injection moulding e.g. of technical items, seals, watch belts and bellows.

#### TYPICAL CHEMICAL- PHYSICAL PROPERTIES

| Parameter             | Typical Value | Unit               | Method            |
|-----------------------|---------------|--------------------|-------------------|
| Density               | 1.19          | gr/cm <sup>3</sup> | ISO 2781          |
| Shore Hardness        | 91            | A                  | ISO 7619-1        |
| Abrasion Loss         | 30            | mm <sup>3</sup>    | ISO 4649          |
| Tensile Modulus:      | 50%           | 7.4                | N/mm <sup>2</sup> |
|                       | 100%          | 9.5                |                   |
|                       | 300%          | 28.2               |                   |
| Tensile Strength      | 63.5          | N/mm <sup>2</sup>  | ISO 22654         |
| Elongation at Break   | 450           | %                  | ISO 22654         |
| Tear Strength         | 105           | N/mm               | ISO 34-1          |
| Vicat Softening Point | 125           | °C                 | ISO 306           |
| Compression set:      | 70h/23°C      | 22                 | %                 |
|                       | 22h/70°C      | 40                 |                   |

The above reported data do not constitute sales specifications for the material in object.

The properties reported in this Technical Data Sheet are determined on annealed, injection moulded specimens and represent the average of values obtained from a significant number of production lots.

The international standards above indicated are intended as a reference for the execution of the relative tests, whereas the choice of available options and any possible variation are detailed in our respective internal standards.

The informations reported in this Technical Data Sheet are based on our current best knowledge, however, even if we guarantee the quality consistency of our LARIPUR products, we reserve the option to periodically issue updated versions of this Technical Data Sheet and respective sale specifications as well.

The extrusion grade LARIPUR are identified by a specific end code (EG, EA, AE, DP, EM, EF, EP, U, EUV or HFM). This code has to be indicated when ordering those grades.



**STORAGE AND STABILITY**

LARIPUR E 2102-90 AE is supplied in regular pelletized form and packaged in 25 kg bags or 500 kg and 1000 kg octabins.

LARIPUR E 2102-90 AE must be stored in its original and sealed containers and kept in a dry and well-ventilated place, avoiding the direct sun radiation.

The shelf life of LARIPUR E 2102-90 AE is of six months from the date of delivery to the final customer, if stored in its original sealed packaging and in proper conditions.

**SAFETY**

The product is not considered dangerous, nevertheless we recommend to read the Material Safety Data Sheet before handling.

**PROCESSING RECOMMENDATIONS**

Before processing, material needs to be dried at 80-90°C for 3 hours, preferably using a dehumidifying drier fed by air with a dew point lower than -30°C.

Suggested moulding temperature profile:

| Zone   | Temperature |
|--------|-------------|
| Zone 1 | 190°C       |
| Zone 2 | 195°C       |
| Zone 3 | 200°C       |
| Nozzle | 195°C       |

Suggested extrusion temperature profile:

| Zone    | Temperature |
|---------|-------------|
| Zone 1  | 190°C       |
| Zone 2  | 195°C       |
| Zone 3  | 200°C       |
| Zone 4  | 195°C       |
| Adapter | 190°C       |
| Die     | 185°C       |

Being affected by the type of machine used, processing conditions and downstream equipment, the suggested temperature profiles has to be considered as just indicative.

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**C.O.I.M.**

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