



Advanced Thinking

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# LARIPUR®

## LPR 2102-85AE

Thermoplastic Polyurethane

### TECHNICAL DATA SHEET

**Description:** LARIPUR 2102-85AE is a polycaprolactone ester based TPU . The standard version is designed e.g. for injection molding of technical items, watch belts and bellows, while EG one for the extrusion of hoses, profile, transmission belt and film.

50%  
100%  
300%

Physical Properties	Typical Value	Unit	Test Method	
Specific Gravity	1,16	gr/cm <sup>3</sup>	DIN 53479	
Shore Hardness	84	A	DIN 53505	
Abrasion Loss	30	mm <sup>3</sup>	DIN 53516	
Tensile Modulus:	4,5 6,5 16,0	N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup>	DIN 53504 DIN 53504 DIN 53504	
Tensile Strength	53,2	N/mm <sup>2</sup>	DIN 53504	
Elongation at Break	520	%	DIN 53504	
Tear Strength	70	N/mm	DIN 53515	
VICAT Softening Point	89	°C	ISO 306	
Compression Set:	70h/23°C 22h/70°C	17 36	% %	DIN53517 DIN53517

- The grade also suitable for extrusion are indicated by the EG or AE end code and consequently they have to be ordered with such code when used in this application.
- This technical note has been written on basing our present best knowledge but the above mentioned data have not to be released as a specification for the material in object.
- Properties reported in this Data Sheet are determined on annealed specimens obtained by injected test plaques and mostly represent an average of values gathered from a significative number of production lots.
- Even if we guarantee the quality consistency of the LARIPUR products we could periodically issue up-dated version of this Technical Data Sheet and modify the respective sales specification as well .

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### PROCESS RECOMMENDATION

**Predrying Condition:** Material needs to be dried prior processing at 80°-90°C for 3 hours, preferably using a dehumidifying drier fed by air exhibiting a dew point lower than -30°C.

### Processing

#### Recommended Molding Temperature Profile

	°C
Zone 1	180
Zone 2	185
Zone 3	190
Nozzle	185

#### Recommended Extrusion Temperature Profile

	°C
Zone 1	195
Zone 2	200
Zone 3	205
Zone 4	200
Adapter	190
Die	180

*Being affected by type of machine used, processing condition and downstream equipment, the temperature profiles as given above has to be considered just as indicative.*

**Appearance** Trasparent. ( Evaluated on 6 mm thick test plaques )

**Approvals** **EC** and **FDA** food contact approved;

**Health and security** The product is not considered to be dangerous,nevertheless Safety Material Data Sheet is available upon request

**Supply and package** **LPR 2102-85AE** is supplied in regular pellet form and it is packaged in 25 kg bags or 500 kg and 1000 kg octabins.

The information presented herein are given in good faith but without warranty. They are based on our experience, indicate our laboratory work results and do not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use . Our suggestions do not release you from the obligation to check its validity and to test our products for both their process and end use application.COIM assumes no obligation or liability for the description, data and information given or result obtained as production testing and end product performance are the responsibility of the user. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranties, express or implied, including, but not limited to the merchantability and fitness for a particular purpose.