



Advanced Thinking

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**LARIPUR®**  
**LPR 107-90A**  
**(LCS900)**

Thermoplastic Polyurethane

**TECHNICAL DATA SHEET**

**Description:** LARIPUR 107-90A(LCS900) is a polycaprolactone ester based TPU mainly used in the production of heavy-duty hydraulic seals exhibiting excellent performance as well.

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1,18	g/cm <sup>3</sup>	DIN 53479
Shore Hardness	90	A	DIN 53505
Abrasion Loss	25	mm <sup>3</sup>	DIN 53516
Tensile Modulus:	50%	6,2	N/mm <sup>2</sup>
	100%	7,8	N/mm <sup>2</sup>
	300%	25,0	N/mm <sup>2</sup>
Tensile Strength	63,1	N/mm <sup>2</sup>	DIN 53504
Elongation at Break	505	%	DIN 53504
Tear Strength	85	N/mm	DIN 53515
Compression Set:	22h/70°C	20	%
	22h/100°C	29	%
	70h/100°C	36	%

- 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	210
Zone 2	215
Zone 3	220
Nozzle	215

*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.*

### Health and security

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

### Supply and package

**LPR 107-90A(LCS900)** 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.