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LARIPUR®

LPR 5725

Advanced Thinking

Thermoplastic Polyurethane

TECHNICAL DATA SHEET

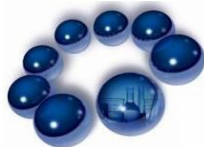
**Description:** LARIPUR 5725 is a polyester based TPU used e.g. for the inj. Moulding of technical items, footwear features.

Physical Properties	Typical Value	Unit	Test Method	
Specific Gravity	1.23	gr/cm <sup>3</sup>	DIN 53479	
Shore Hardness	56	D	DIN 53505	
Abrasion Loss	35	mm <sup>3</sup>	DIN 53516	
Tensile Modulus:				
50%	15.5	N/mm <sup>2</sup>	DIN 53504	
100%	18.0	N/mm <sup>2</sup>	DIN 53504	
300%	43.9	N/mm <sup>2</sup>	DIN 53504	
Tensile Strength	64.5	N/mm <sup>2</sup>	DIN 53504	
Elongation at Break	440	%	DIN 53504	
Tear Strength	162	N/mm	DIN 53515	
Flexural Modulus	190	N/mm <sup>2</sup>	ISO 178	
VICAT Softening Point	138	°C	ISO 306	
Torsion Test				
+ 20°C	44	N/mm <sup>2</sup>	DIN53447	
- 20°C	288	N/mm <sup>2</sup>	DIN53447	
Ratio -20°C/+20°C	6.4			
Impact Test	- 20°C	5.5	KJ/m <sup>2</sup>	ASTM D256

- 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 feeded by air exhibiting a dew point lower than -30°C.

**Processing**

**Recommended Molding Temperature Profile**

	°C
Zone 1	190
Zone 2	200
Zone 3	210
Nozzle	200

*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.*

**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 5725 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.