



Advanced Thinking

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LARIPUR®

LPR 4525

LPR 4525EG

Thermoplastic Polyurethane

TECHNICAL DATA SHEET

Description: LARIPUR 4525/4525EG is a quality polyester based TPU. The standard version is used e.g. for the production of technical items, sport soles, cattle tags while the EG one is used for the extrusion of hoses, profiles, transmission belts and films.

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.22	gr/cm ³	DIN 53479
Shore Hardness	46	D	DIN 53505
Abrasion Loss	35	mm ³	DIN 53516
Tensile Modulus:			
50%	10.7	N/mm ²	DIN 53504
100%	12.9	N/mm ²	DIN 53504
300%	27.9	N/mm ²	DIN 53504
Tensile Strength	56.8	N/mm ²	DIN 53504
Elongation at Break	530	%	DIN 53504
Tear Strength	120	N/mm	DIN 53515
Flexural Modulus	100	N/mm ²	ISO 178
VICAT Softening Point	120	°C	ISO 306
Compression Set:			
70h/23°C	28	%	DIN53517
22h/70°C	48	%	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 feeded by air exhibiting a dew point lower than -30°C.

Processing

Recommended Molding Temperature Profile

	°C
Zone 1	190
Zone 2	195
Zone 3	200
Nozzle	195

Recommended Extrusion Temperature Profile

	°C
Zone 1	190
Zone 2	200
Zone 3	205
Zone 4	195
Adapter	190
Die	185

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.

Flammability test V-2 (UL94 Vertical burning)

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 4525/4525EG** 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.