



Advanced Thinking

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LARIPUR®

LPR 5260

LPR 5260EG

Thermoplastic Polyurethane

TECHNICAL DATA SHEET

Description: LARIPUR 5260/5260EG is a PTMG polyether based TPU exhibiting a very good resistance to hydrolysis and microbes attac. The standard version is designed e.g. for injection molding of skiboats and technical items while EG one for the extrusion of hoses, cables, profile and film.

Physical Properties		Typical Value	Unit	Test Method
Specific Gravity		1,15	gr/cm ³	DIN 53479
Shore Hardness		50	D	DIN 53505
Abrasion Loss		35	mm ³	DIN 53516
Tensile Modulus:	50%	10,3	N/mm ²	DIN 53504
	100%	12,2	N/mm ²	DIN 53504
	300%	23,5	N/mm ²	DIN 53504
Tensile Strength		54,8	N/mm ²	DIN 53504
Elongation at Break		530	%	DIN 53504
Tear Strength		110	N/mm	DIN 53515
Flexural Modulus		96	N/mm ²	ISO 178
VICAT Softening Point		120	,C	ISO 306
Torsion Test	+ 20,C	22	N/mm ²	DIN53447
	- 20,C	113	N/mm ²	DIN53447
	Ratio -20°C/+20°C	5,2		
Compression Set:	70h/23,C	27	%	DIN53517
	22h/70,C	50	%	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 baseing 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	190
Zone 3	200
Nozzle	190

Recommended Extrusion Temperature Profile

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

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)

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

Approvals **EC** and **FDA** food contact approved;
NSF 61 for drinkable water approved;
USP medical Class VI.

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

Supply and package **LPR 5260/5260EG** 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.