

C.O.I.M. s.p.A.

CHIMICA ORGANICA INDUSTRIALE MILANESE

www.coimgroup.com

Sede legale e amministrativa:

20090 Buccinasco (MI) - Italia Via delle Azalee, 19 Numero R.E.A. MI-706575 - N. Mecc. MI 027496 Trib. Milano Reg. N. 128783 - Capitale Sociale € 5.572.800

Tel. +39 02 335051 Fax +39 02 33505250

Partita IVA/Codice Fiscale: IT 00798810156

Stabilimenti e sedi secondarie:

26010 Offanengo (CR) - Italia Via Ricengo, 21/23 Tel. +39 0373 248.1 r.a. - Fax +39 0373 789222 Numero R.E.A. CR-159324

26817 San Martino in Strada (LO) - Italia Via privata Fabrizio De Andrè, 24 Tel. +39 0371 942800 - Fax +39 0371 942819 Numero R.E.A. LO-2544771



UNI ISO 45001:2018 UNI EN ISO 14001:2015 UNI EN ISO 9001:2015



TECHNICAL DATA SHEET

LARIPUR 6018 B

GENERAL DESCRIPTION

LARIPUR 6018 B is a transparent, soft, plasticized (phthalate-free) polyester-based TPU allowing for fast injection moulding cycles. Able to combine the advantages of rubbery materials with the typical features of TPUs, it exhibits very good abrasion and slip resistance as well as an excellent adhesion to most of two component PU systems, making it particularly suitable for the manufacturing of high flexibility soles.

TYPICAL CHEMICAL-PHYSICAL PROPERTIES

Parameter		Typical Value	Unit	Method
Density		1.19	gr/cm³	ISO 2781
Shore Hardness		66	Α	ISO 7619-1
Abrasion Loss		50	mm³	ISO 4649
Tensile Modulus:	50%	1.7		
	100%	2.6	N/mm ²	ISO 22654
	300%	4.8		
Tensile Strength		28.2	N/mm²	ISO 22654
Elongation at Break		950	%	ISO 22654
Tear Strength		35	N/mm	ISO 34-1
Compression set:	70h/23°C	20	%	ISO 815-1
	22h/70°C	41		130 813-1

The above reported data do not constitute sales specifications for the material in object.

The properties reported in this Technical Data Sheet are determined on annealed, injection moulded specimens and represent the average of values obtained from a significant number of production lots.

The international standards above indicated are intended as a reference for the execution of the relative tests, whereas the choice of available options and any possible variation are detailed in our respective internal standards.

The informations reported in this Technical Data Sheet are based on our current best knowledge, however, even if we guarantee the quality consistency of our LARIPUR products, we reserve the option to periodically issue updated versions of this Technical Data Sheet and respective sale specifications as well.

The extrusion grade LARIPUR are identified by a specific end code (EG, EA, AE, DP, EM, EF, EP, U, EUV or HFM). This code has to be indicated when ordering those grades.

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The information presented herein is given in good faith but without warranty. It is based on our experience, indicates the findings of our laboratory and does 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 their use. Our suggestions do not release you from the obligation to check their validity and to test our products for both your process and end use application. COIM assumes no obligation or liability with regard to the descriptions and information given or results obtained as production testing and end product performance are under the responsibility of the user. All our products are sold in accordance with our General Conditions of Sale. We do not provide any warranty, express or implied, including but not limited to the merchantability and fitness for a particular purpose or use.



STORAGE AND STABILITY

LARIPUR 6018 B is supplied in regular pelletized form and packaged in 25 kg bags or 500 kg and 1000 kg octabins.

LARIPUR 6018 B must be stored in its original and sealed containers and kept in a dry and well-ventilated place, avoiding the direct sun radiation.

The shelf life of LARIPUR 6018 B is of six months from the shipment date, if stored in its original sealed packaging and in proper conditions.

SAFETY

The product is not considered dangerous, nevertheless we recommend to read the Material Safety Data Sheet before handling.

PROCESSING RECOMMENDATIONS

Before processing, material needs to be dried at 80-90°C for 3 hours, preferably using a dehumidifying drier fed by air with a dew point lower than -30°C.

Suggested moulding temperature profile:

Zone	Temperature		
Zone 1	160°C		
Zone 2	165°C		
Zone 3	170°C		
Nozzle	165°C		

Being affected by the type of machine used, processing conditions and downstream equipment, the suggested temperature profile has to be considered as just indicative.

Edition: 04 - 01/2021

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