

**C.O.I.M. LARIPUR® LPR6518 Plasticized Ester Polyurethane**

Category : Polymer , Thermoplastic , Polyester, TP , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

**Material Notes:**

**Description:** The products of the LARIPUR® line are thermoplastic polyurethanes. These products combine the technology of thermoplastic products with the features of polyurethanes:Excellent abrasion resistanceGreat flexibility with constancy at temperature variationsGood compression resistanceGood water and light resistanceGood resistance to oils, fats and to many types of solventsSeries 15 and 19

**Plasticized Ester:** These products are esters containing a small amount of a low migrating plasticizer. They are soft grade TPU mainly developed for the footwear industry. These two series of LARIPUR® combine the properties of polyurethane with those of rubber.Despite their low hardness, they exhibit fast processing cycles. Products belonging to Series 18 are fully transparent while those of Series 15 are opaque. Both exhibit a very good adhesion to most two component PU systems without any pre-treatment.Information provided by P.A.T. Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_COIM-LARIPUR-LPR6518-Plasticized-Ester-Polyurethane.php](http://www.lookpolymers.com/polymer_COIM-LARIPUR-LPR6518-Plasticized-Ester-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66	66	ASTM D2240
Tensile Strength, Yield	31.5 MPa	4570 psi	ASTM D412
Elongation at Break	870 %	870 %	ASTM D412
50% Modulus	0.00190 GPa	0.276 ksi	ASTM D412
100% Modulus	0.00260 GPa	0.377 ksi	ASTM D412
300% Modulus	0.00520 GPa	0.754 ksi	ASTM D412
Tear Strength	52.0 kN/m	297 pli	ASTM D624
Abrasion	35	35	mm3, Abrasion Loss; DIN 53516
Compression Set	23 %	23 %	70 hours at 23°C; ASTM D395
	46 %	46 %	Method B, 22 hours; ASTM D395
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	63.0 °C	145 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Features	Transparent	

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