

C.O.I.M. LARIPUR® LPR7018 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-LPR7018-Plasticized-Ester-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D412
Elongation at Break	830 %	830 %	ASTM D412
50% Modulus	0.00220 GPa	0.319 ksi	ASTM D412
100% Modulus	0.00320 GPa	0.464 ksi	ASTM D412
300% Modulus	0.00580 GPa	0.841 ksi	ASTM D412
Tear Strength	60.0 kN/m	342 pli	ASTM D624
Abrasion	40	40	mm3, Abrasion Loss; DIN 53516
Compression Set	24 %	24 %	70 hours at 23°C; ASTM D395
	48 %	48 %	Method B, 22 hours; ASTM D395
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	65.0 °C	149 °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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