

C.O.I.M. LARIPUR® LPR5850 Modified Ester Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer , Polyurethane, TP

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 resistance Great flexibility with constancy at temperature variations Good compression resistance Good water and light resistance Good resistance to oils, fats and to many types of solvents Series 50 Modified Ester: These products are obtained by homogeneously incorporating a small amount of raw material of unique chemical composition to the products of Series 25. They combine a high level of hardness with excellent cold impact resistance. Information provided by P.A.T. Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_COIM-LARIPUR-LPR5850-Modified-Ester-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM D2240
Tensile Strength, Yield	63.5 MPa	9210 psi	ASTM D412
Elongation at Break	430 %	430 %	ASTM D412
50% Modulus	0.0156 GPa	2.26 ksi	ASTM D412
100% Modulus	0.0180 GPa	2.61 ksi	ASTM D412
300% Modulus	0.0430 GPa	6.24 ksi	ASTM D412
Flexural Modulus	0.270 GPa	39.2 ksi	ASTM D790
Izod Impact, Notched (ISO)	12.6 kJ/m ² @Temperature -20.0 °C	6.00 ft-lb/in ² @Temperature -4.00 °F	ASTM D256
Tear Strength	165 kN/m	941 pli	ASTM D624
Abrasion	40	40	mm ³ , Abrasion Loss; DIN 53516
Torsional Stiffness	67.0 MPa	9720 psi	+20°C; ASTM D1043
	306 MPa	44400 psi	-20°C; ASTM D1043

Thermal Properties	Metric	English	Comments
Vicat Softening Point	120 °C	248 °F	ASTM D1525

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