

LARIPUR® LPR5725

Thermoplastic Polyurethane Elastomer (Polyester)

COIM S.p.A.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

SERIES 25 SPECIAL ESTER

Products based on special grade saturated polyester. The features are similar to those of Series 20 but are characterised by a higher resistance to hydrolysis failure and improved flexibility at low temperatures.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• COIM S.p.A. • LARIPUR®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Abrasion Resistant • Good Compression Set • Good Flexibility • Good Tear Strength • Hydrolysis Resistant • Low Temperature Flexibility • Oil Resistant • Oxidation Resistant • Resilient • Solvent Resistant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.23 g/cm ³	DIN 53479

Mechanical	Nominal Value Unit	Test Method
Flexural Modulus	190 MPa	ISO 178
Abrasion Loss	35.0 mm ³	DIN 53516
Tear Resistance	162 MPa	DIN 53515
Torsion Modulus		
-20°C	288 MPa	DIN 53447
20°C	44.0 MPa	DIN 53447
Ratio (-20°C/+20°C)	6.50	

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		DIN 53504
50% Strain	15.5 MPa	
100% Strain	18.0 MPa	
300% Strain	43.9 MPa	
Tensile Strength (Break)	64.5 MPa	DIN 53504
Tensile Elongation (Break)	440 %	DIN 53504

Impact	Nominal Value Unit	Test Method
Unnotched Izod Impact (Area) (-20°C)	5.50 kJ/m ²	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	56	DIN 53505

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

