

COIM Laripur Series



The Laripur 25 series is based on a special adipate polyester and is utilised by PolyGlobal for injection moulding applications. Within the range are a broad range of hardness options from 83 Shore A to 63 Shore D.

This Laripur material range offers enhanced properties in comparison to standard ester grades. These products are used in injection moulding to manufacture articles which require excellent versatility and a balance of mechanical properties and chemical resistance.

In addition, PolyGlobal offers LPR9060, a specialist flame retardant ether grade that is utilised in the production of numerous fire retarded items and 71D60, a 70D Polyether based material. Key performance characteristics and advantages of the Laripur series are:

- ✓ Excellent abrasion resistance
- ✓ Very good mechanical properties
- ✓ Excellent tear resistance
- ✓ Good resistance to oils & fats
- ✓ Good performance at elevated temperatures
- ✓ Higher hydrolysis resistance than standard Esters

Grade	UoM	LPR8225	LPR9025	LPR4625	LPR6325	LPR71D60	LPR9060
Hardness		83A	90A	46D	62D	70D	86A
100% Modulus	MPa	6.2	7.8	12.9	23.4	41.1	7
300% Modulus	MPa	5.1	18.6	27.9	48.9	62.5	13.2
Tensile Strength	MPa	58.6	55.2	56.8	69.8	77.2	44.4
Elongation at Break	%	600	580	530	400	350	650
Abrasion Loss	mm ³	30	30	35	40	50	35

Definition of Terms	
100% Modulus	The force needed to stretch a material to twice its original length
300% Modulus	The force needed to stretch a material to four times its original length
Tensile Strength	The force needed to stretch a material until it breaks
Elongation at Break	How much a material can stretch before it breaks, as a % of its original dimensions
Compression Set	How much the material will take on permanent deformation when under compression. The lower the % the less deformation.
Resilience	The ability of a material to absorb energy when it is deformed elastically and release that energy upon unloading. Its ability to bounce as a % of the height it was dropped from. The higher the % the higher the bounce.
DIN Abrasion	A materials ability to resist abrasion. Lower figures indicate a higher resistance to wear.
Hardness	The resistance of a material to indentation.