



LARIPUR

THERMOPLASTIC POLYURETHANE (TPU)
POLYURETHANE C.A.S.E. AND SYSTEM

SERIES 25 SPECIAL ESTER

TECHNICAL PROPERTIES





Quality adipate polyester-based aromatic isocyanate products that combine a good resistance to hydrolysis with good mechanical properties, even in relation to temperature changes; they also demonstrate good resistance to light and to thermo-oxidative conditions.

Characteristic	UNIT	7025	7725	8025	9025	4525	5225	5525	5725	5925	6325	72D25
Density ISO 2781	gr/cm ³	1.19	1.19	1.20	1.21	1.22	1.22	1.23	1.23	1.23	1.24	1.25
Shore Hardness ISO 7619-1	A	72	79	84	89							
	D					47	51	54	56	58	63	68
Abrasion Loss ISO 4649	mm ³	35	35	35	35	30	30	30	30	30	35	45
Tensile Modulus												
ISO 22654 50%	N/mm ²	2.3	3.1	4.0	5.7	9.2	11.5	13.3	14.8	16.2	20.5	26.5
ISO 22654 100%	N/mm ²	3.2	4.3	5.2	7.1	11.3	13.6	16.0	17.1	19.5	23.4	28.2
ISO 22654 300%	N/mm ²	9.5	13.2	14.8	19.8	31.5	36.2	42.2	44.2	46.7	50.8	52.3
Tensile Strength ISO 22654	N/mm ²	52.3	57.3	58.2	65.0	67.8	68.2	68.5	69.1	70.2	72.3	65.5
Elongation at Break ISO 22654	%	680	580	570	560	480	460	440	430	410	390	380
Tear strength ISO 34-1	N/mm	66	70	83	92	124	140	155	162	173	190	205
Flexural Modulus ISO 178	N/mm ²					100	130	160	190	220	370	680
VICAT softening point ISO 306	°C	50	67	90	110	128	135	148	151	155	160	180
Compression set												
ISO 815-1 70h/23°C	%	21	21	22	23	27	27					
ISO 815-1 22h/70°C	%	45	38	40	44	46	46					
Impact test ASTM D6110 - 20°C	KJ/m ²								5.3	5.0	4.2	3.7
Processing:												
Injection		•	•	•	•	•	•	•	•	•	•	•
Extrusion*		•	•	•	•	•	•	•	•			
Features:												
O opaque (evaluated on 2 mm thick test plaques)												
T transparent (evaluated on 6 mm thick test plaques)		•	•	•								

The characteristics shown in this data sheet are determined by annealed, injection moulded specimens and are derived from a significant number of production lots. The characteristics do not constitute sales specifications. The international standards here indicated are intended as a reference for the execution of the relative tests, whereas the choice of available options and any possible variations are detailed in the C.O.I.M. s.p.a. internal standards. All Laripur products have a shelf life of six months from the date of delivery. Even if C.O.I.M. s.p.a. guarantees the quality consistency of LARIPUR products, C.O.I.M. s.p.a. reserves the right to issue periodic updates of the technical data sheets and respective sale specifications.

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* The grade also suitable for extrusion are indicated by the code EG or AE