



LARIPUR

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

SERIES 60 AND 2103 ETHER

TECHNICAL PROPERTIES





Polyether polytetramethylene glycol-based aromatic isocyanate products that combine excellent hydrolytic and microbial resistance with optimal mechanical properties and flexibility, even at low temperatures.

Characteristic	UNIT	7560	8860	9060	9060 EM	9060 EF	9060 HFM	2013-90AE	4760	5260	5760	6260	6560	71D60
Density ISO 2781	gr/cm ³	1.11	1.13	1.12	1.11	1.12	1.24	1.14	1.14	1.15	1.16	1.17	1.18	1.19
Shore Hardness ISO 7619-1	A	77	86	86	88	87	88	90						
	D								46	50	56	59	63	71
Abrasion Loss ISO 4649	mm ³	30	30	30	40	35	50	30	30	30	30	30	30	35
Tensile Modulus														
ISO 22654 50%	N/mm ²	3.0	4.8	4.7	5.6	5.7	7.2	7.7	8.4	10.8	15.3	17.8	21.7	30.4
ISO 22654 100%	N/mm ²	4.2	6.5	6.3	7.4	7.7	9.0	9.3	11.2	13.2	19.0	22.3	25.8	33.6
ISO 22654 300%	N/mm ²	8.2	16.2	13.2	13.5	16.5	13.6	26.3	26.4	34.6	44.5	47.5	52.5	58.8
Tensile Strength ISO 22654	N/mm ²	43.0	56.4	48.6	53.0	52.5	33.6	61.0	62.3	65.0	64.7	67.3	69.3	64.3
Elongation at Break ISO 22654	%	670	520	570	600	530	530	490	470	460	410	380	360	330
Tear strength ISO 34-1	N/mm	50	68	66	70	70	68	80	93	115	135	155	183	240
Flexural Modulus ISO 178	N/mm ²								60	105	175	265	410	910
VICAT softening point ISO 306	°C	55	95	90	91	91	84	105	115	127	140	145	155	162
Compression set														
ISO 815-1 70h/23°C	%	25	20	22	24	22	28	22	22	22				
ISO 815-1 22h/70°C	%	44	42	47	50	46	56	44	42	48				
Impact test ASTM D6110 - 20°C	kJ/m ²										10.1	8.1	7.2	6.2
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