

PHYSICAL AND MECHANICAL REQUIREMENTS FOR FLEXIBLE POLYURETHANE SLABSTOCK FOAMS

According to ZN-CIECH PIANKI Sp. z o.o.-1999:2011

Requirements	Standard foam						
	T-2221	T-2233	T-2315	T-2330	T-2345	T-2523	T-2533
Apparent density [kg/m ³]	19,0-21,3	19,0-21,3	20,0-22,3	20,0-22,3	20,0-22,3	21,5-23,8	21,5-23,8
Maksimum gross density of the block (to account from dimensions of the block) [kg/m ³]	22,8	22,8	23,8	23,8	23,8	25,4	25,4
Average hardness, CLD [kPa]	1,8-2,7	2,9-3,9	1,4-2,3	2,7-3,8	3,6-4,9	2,0-2,9	2,9-3,9
Average hardness, ILD [N]	75-112	122-164	56-93	113-160	144-201	85 - 123	122-164
Resilience (rebound elasticity) not less than [%]	40	40	42	40	40	40	45
Compression set, not more than [%]	6	6	7	6	6	6	6
Tensile strength, not less than [kPa]	100	90	90	110	105	110	110
Elongation at break, not less less than [%]	150	90	150	200	120	200	200
Fatigue test: thickness loss, not more than [%]	7	7	7	7	7	7	7
Fatigue test: hardness loss, not more than [%]	45	45	40	43	50	43	43

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Requirements	Standard foam						
	T-2538	T-2545	T-2826	T-2830	T-2842	T-3030	T-3037
Apparent density [kg/m ³]	21,5-23,8	21,5-23,8	24,2-26,3	24,2-26,3	24,2-26,3	27,2-29,4	27,2-29,4
Maksimum gross density of the block (to account from dimensions of the block) [kg/m ³]	25,4	25,4	28,2	28,2	28,2	31,5	31,5
Average hardness, CLD [kPa]	3,4-4,4	4,2-5,2	2,0-3,4	2,8-3,9	3,8-4,9	2,8-3,9	3,3-4,4
Average hardness, ILD [N]	138-179	168-208	84-142	114-158	156-201	121-169	140-186
Resilience (rebound elasticity) not less than [%]	40	40	40	45	45	45	45
Compression set, not more than [%]	5	6	6	6	5	6	6
Tensile strength, not less than [kPa]	110	110	100	110	110	110	110
Elongation at break, not less less than [%]	150	120	200	150	150	150	150
Fatigue test: thickness loss, not more than [%]	7	7	8	8	6	7	7
Fatigue test: hardness loss, not more than [%]	45	50	50	40	40	40	38

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Requirements	Standard foam						
	T-3042	T-3050	T-3037SG	T-3538	T-3542	T-3546	T-4050
Apparent density [kg/m ³]	27,2-29,4	27,2-29,4	27,2-29,5	32,0-34,3	32,0-34,3	32,0-34,3	36,4-38,4
Maksimum gross density of the block (to account from dimensions of the block) [kg/m ³]	31,5	31,5	31,6	36,7	36,7	36,7	43
Average hardness, CLD [kPa]	3,7-4,9	4,5-5,7	3,3-4,4	3,5-4,6	3,8-4,7	4,2-5,3	5,5-6,7
Average hardness, ILD [N]	152-201	197-249	134-178	150-198	167-207	178-226	234-285
Resilience (rebound elasticity) not less than [%]	45	40	45	50	45	45	40
Compression set, not more than [%]	5	5	5	5	5	5	5
Tensile strength, not less than [kPa]	110	110	110	110	110	110	100
Elongation at break, not less less than [%]	150	120	150	150	150	130	80
Fatigue test: thickness loss, not more than [%]	6	7	6	6	6	6	7
Fatigue test: hardness loss, not more than [%]	38	50	43	43	43	40	45
Flammability, not more than [mm/min]	-	-	100	-	-	-	-