

RenShape Specifications

Product	Hardness	Density	Density	Tensile Strength	Compressive Strength	Compressive Modulus Elasticity	Flexural Strength	Flexural Modulus	Glass Transition Temp	Coefficient Thermal Expansion
Units	Shore D	g/cc	lbs/cu.ft	psi	psi	psi	psi	psi	°F	in/in/°F
ASTM	D-2240	D-792	D-792	D-638	D-695	D-695	D-790	D-790	D-4065	D-3386
<b>Modeling Boards</b>										
350	30-35	0.42	26	550	500	38,000	750	33,000	194	41.7 x 10-6
440	54	0.55	34	1,300	1,400	105,000	2,300	106,000	203	34.4 x 10-6
5440	55-60	0.5	31	-	2,520	-	2,520	-	172	28.0 x 10-6
450	65	0.66	41	2,300	2,800	135,000	4,000	144,000	205	36.0 x 10-6
460	64	0.77	48	1,800	2,200	181,000	3,700	185,000	219	29.9 x 10-6
5003	60-64	0.54	34	2,900	3,700	185,000	3,400	188,000	182	32.0 x 10-6
5020	27	0.16	10	370	360	-	330	-	-	-
5025	27	0.25	15	800	800	-	-	-	-	85.0 x 10-6
5030	30-35	0.3	20	-	1,000	-	1,000	40,000	-	-
<b>Tooling Boards</b>										
470	90	1.67	104	4,700	9,500	866,000	8,700	983,000	232	22.7 x 10-6
472	81	0.88	55	7,000	10,900	460,000	9,540	416,000	248	28.8 x 10-6
473	70-75	0.8	50	2,500	3,500	210,000	4,000	200,000	212	30.0 x 10-6
550	82	0.85	53	7,000	10,500	415,000	8,800	414,000	289	27.5 x 10-6
5166	90	1.66	103	4,875	9,500	840,000	8,000	965,000	228	22.0 x 10-6
5169	85	1.2	75	9,000	8,800	366,000	14,000	380,000	206	40.8 x 10-6
5005	64-68	0.56	35	2,900	5,000	230,000	3,700	240,000	287	23.0 x 10-6
5008	68	0.67	42	3,500	8,200	350,000	4,600	350,000	287	18.0 x 10-6
Exp. 2000	91	1.8	112	9,000	36,500	900,000	12,000	1,200,000	496	21.0 x 10-6