

Comparing Wood Properties measure by Ksc (Kilogram-force/square centimeter)

* 1 Ksc = 0.0980065 Mpa (Megapascal = 1,000,000 newton per square meter)

* Megapascal = 10.19716213 kilogram-force/square centimeter

Wood Properties from Material Testing Article by Dr. Sittichai Saagathith Department of Engineering from Suranaree University of Technology

Species	Type	Specific gravity of wood	Bending Strength Modulus of rupture Kg/Sq.cm.	Stiffness Modulus of elasticity Kg/Sq.cm.	Compression stress parallel to grain Kg/Sq.cm.	Compression stress perpendicular to grain Kg/Sq.cm.	Shearing stress parallel to grain Kg/Sq.cm.
กระท่อน	Very Soft	0.57	485	74,927	194	71	66
จำปาป่า		0.51	553	76,102	279	71	157
ยางขาว		0.70	612	89,929	312	65	161
สัก	Soft	0.62	641	81,537	327	80	134
อินทนิล		0.65	697	92,720	340	77	157
ยางแดง		0.76	739	113,651	367	65	166
กระบาก		0.74	770	105,017	217	62	80
มุง	Medium	0.75	806	120,586	364	68	174
ตะแบก		0.72	808	112,556	374	105	175
ตะเคียนทอง		0.77	816	104,940	354	116	123
มะค่าเต้		0.99	954	125,805	357	231	208
เต็ง	Hard	1.07	924	115,464	443	184	146
มะค่าโมง		0.85	996	101,721	463	121	167
สักขี้คลาย		0.88	1,063	131,968	467	184	146
รัง		1.15	1,108	153,607	496	182	176
ประดู่		0.82	1,163	128,448	495	201	164
แดง	Very Hard	1.05	1,193	153,129	538	219	120
เขลียง		1.10	1,206	197,795	725	267	235
ตีนนก		0.99	1,283	181,021	482	225	208
บุนนาค		1.12	1,519	230,689	519	211	129

Scandinavian Red Pine Properties testing from structure design article by Dr. Suradache Juntranurak

Species	Type	Specific gravity of wood	Bending Strength Modulus of rupture Kg/Sq.cm.	Stiffness Modulus of elasticity Kg/Sq.cm.	Compression stress parallel to grain Kg/Sq.cm.	Compression stress perpendicular to grain Kg/Sq.cm.	Shearing stress parallel to grain Kg/Sq.cm.
Scandinavian Red Pine	Soft	0.44	690	70,360	410	105	105

American Southern Yellow Pine Properties testing from Department of Forestry in Kasetsart University

Species	Type	Specific gravity of wood	Bending Strength Modulus of rupture Kg/Sq.cm.	Stiffness Modulus of elasticity Kg/Sq.cm.	Compression stress parallel to grain Kg/Sq.cm.	Compression stress perpendicular to grain Kg/Sq.cm.	Shearing stress parallel to grain Kg/Sq.cm.
American Southern Yellow Pine	Hard	0.71	1,091	91,693	565	242	129



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