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## Plastic Lumber Railroad Ties

### TECHNICAL DATA:

Properties	Test	Value
Specific Gravity	ASTM D6111	0.85 – 0.90
Density	ASTM D6111	53 – 56 lb/ft <sup>3</sup> (849-897 kg/m <sup>3</sup> )
Coefficient of Thermal Expansion	ASTM D696-91	0.000041 in/in/°F (0.000074 cm/cm/°C)
Compressive Strength (Parallel to Grain)	ASTM D6108	3,000 psi (20.6MPa) average
Compressive Strength (Perpendicular to Grain)	ASTM D6108	1,200 psi (8.3 MPa) average
Permanent Deformation Under Load (30,000 lb./13,608 kg)	ASTM D6108	0.013 in (0.33cm)
Modulus of Elasticity (Flexural)	ASTM D6109	250,000 psi (1,724 MPa) average
Shear Strength (Calculated)	ASTM D6109	1,500 psi (10.3 MPa)
Modulus of Rupture (Bending)	ASTM D6109	3,000 psi (20.6 MPa) average

*All testing was conducted at third party test facilities.*