

## Plastic Lumber from the Plastic Lumber Co.

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Wood and Natural Products , Wood

### Material Notes:

Description: Plastic Lumber is a product similar to wood that is made from recycled plastic jugs. Products will never splinter, rot, crumble or need painting. Plastic Lumber has rapidly gained acceptance with governments, commercial entities and individuals where no maintenance and durability are of the utmost importance. Information provided by The Plastic Lumber Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plastic-Lumber-from-the-Plastic-Lumber-Co.php](http://www.lookpolymers.com/polymer_Plastic-Lumber-from-the-Plastic-Lumber-Co.php)

Physical Properties	Metric	English	Comments
Density	0.570 g/cc	0.0206 lb/in <sup>3</sup>	ASTM D6111-97
	0.917 - 0.980 g/cc	0.0331 - 0.0354 lb/in <sup>3</sup>	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength at Break	10.1 - 11.7 MPa	1470 - 1700 psi	
Modulus of Elasticity	0.793 GPa	115 ksi	
Flexural Yield Strength	6.9003 MPa	1000.8 psi	Stress at 3% Strain; ASTM D6109-97
Compressive Yield Strength	9.2210 MPa	1337.4 psi	Stress at 3% Strain; ASTM D6108-97
Compressive Modulus	0.4713 GPa	68.36 ksi	Compressive Secant Modulus; ASTM D6108-97
Secant Modulus	0.3437 GPa	49.85 ksi	Flexural Secant Modulus; ASTM D6109-97
Izod Impact, Unnotched	1.49 J/cm	2.80 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	126 $\mu\text{m/m-}^{\circ}\text{C}$	70.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	225 $^{\circ}\text{C}$	437 $^{\circ}\text{F}$	
Flash Point	330 $^{\circ}\text{C}$	626 $^{\circ}\text{F}$	ASTM E138

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 10.0 \text{ ohm-cm}$	$\geq 10.0 \text{ ohm-cm}$	ASTM D257

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Compressive Strength	3200-3800 lb/in		
Nail Withdrawal	140 lbs		6 Penny Common Bright
Screw Withdrawal	350 lbs		#10 by 1 inch

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China