



## LamPro Polypropylene Sheet

LamPro-H Homopolymer PP & LamPro-C Copolymer PP

Polypropylene sheet has become a standard for applications requiring chemical and corrosion resistance, good surface appearance, stability and strength. Main differences between the two grades: Homopolymer polypropylene has greater surface hardness and rigidity, and withstands higher temperatures in use. Copolymer polypropylene sheet offers greater toughness and durability even at sub-zero temperatures, at the expense of rigidity and thermal properties. LamPro polypropylene sheets also feature superior flatness and low inherent stress for easy and consistent fabrication.

### Typical properties:

	PROPERTY	ASTM SPEC	UNIT	CoPP	HoPP
	<b>Specific Gravity</b>	D 792	****	0.91	0.90
Environment	<b>Water Absorption</b>	D570	%	<0.01	<0.01
	<b>Abrasion Resistance</b>	Taber CS 17	mg/1000	****	****
	<b>Oxygen Index</b>	D2863	%	****	****
	<b>Flammability</b>	UL 94	****	HB	HB
		FM 4910	****	NO	NO
	<b>Coefficient of Friction</b>	C1894	Static	****	****
C1894		Dynamic	****	****	
Mechanical	<b>Tensile Strength (yield)</b>	D1708, D638	psi	5000	3500.00
	<b>Elongation (break)</b>	D1708, D638	%	500	****
	<b>Flexural Modulus</b>	D790 @ 23 C	psi	>130,000	>190,000
	<b>Notched Izod Impact</b>	D256 @ 23 C	ft-lb/in.	17	1.00
	<b>Shore D Hardness</b>	D2240	***	74	78.00
Thermal	<b>Continuous Service Temperature</b>	Maximum	°C	82	82.00
			°F	180	180.00
	<b>Melting Point</b>	D3418	°C	164	164.00
		D3418	°F	327	327.00
	<b>Vicat Softening Point</b>	D1525	°C	150	150.00
		D1525	°F	302	302.00
	<b>Coefficient of Expansion</b>	E831 TMA	in/in/°F (10 <sup>-5</sup> )	4.6	4.30
	<b>Deflection Temp (66psi)</b>	D648	°C	88	102.00
		D648	°F	190	215.00
	<b>Deflection Temp (264psi)</b>	D648	°C	56	55.00
D648		°F	133	131.00	



### ADVANTAGES

- Chemical & corrosion resistance
- Light weight
- Consistent color and finish
- Dimensionally stable
- Low moisture absorption
- Toughness to -20F (copolymer)
- Easy, consistent fabrication

### PROVEN APPLICATIONS

- Chemical storage tanks
- Lab surfaces, cabinets, doors, equipment housings
- Fume ducts, hoods
- Food prep & processing

### STANDARD SIZES:

- Width, length: 48" x 96"  
Tolerance +1/2"/-0"
- Thickness: 0.250" – 1.5"  
Tolerance +/-5%

### STANDARD COLORS:

- ProH: white/ natural
- ProC: natural/ black/ eurogrey

### STANDARD FINISHES:

- Matte and Smooth

### CUSTOM SIZES, COLORS:

- Contact inside sales

\* Continuous Service Temperature based upon "non-chemical Dry Usage".

\* Table data reflects ASTM based average typical vendor data.

\* Data meant as general guidelines only.

\* Specific applications require additional testing by the buyer.

\* All properties based on standard unbacked product tests only

LamPro PP copolymer

LamPro PP homopolymer

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