

# COHRLastic® Silicone Rubber Press Pads



COHRLastic products are available for a full range of lamination requirements for multiple or highest temperature resin systems to today's technology.

Both low- and high-pressure lamination in hydraulic and vacuum-assisted hydraulic presses as well as autoclave operations. A range of thicknesses of rubber over fabric is necessary to conform to the highest traces and multi-wire.

Saint-Gobain Performance Plastics technologies involving PTFE and thermoplastic bonding films. COHRLastic materials can provide substantial cycle life without silicone reversion.

## COHRLastic Press Pad Product Line

Product	Type	Temperature Range	Usage
3320	General Purpose	350°F (177°C) max.	Flex
4420	Multipurpose	350-400°F (177-204°C)	Flex
4444	Multipurpose	350-400°F (177-204°C)	Flex
4480†	Special Purpose, Reversion Resistant	380-650°F (193-343°C)	Multilayer > 500 psi
4451*†	Special Purpose, Blended Compound, Static-Free	575°F (302°C) max.	Multilayer Flex
555	High-Pressure, Unsupported	575°F (302°C) max.	High-Performance Flex

*\*Offers static-free operation. With a volume resistivity of 105 Ohm Cm, potential problems of damage to work pieces and personnel discomfort due to static elect discharges are eliminated as well as significantly reducing dirt particle pick-up by static attraction.*

*†Non-standard product offering, please contact plant customer support for minimums, pricing and delivery.*

## Multilayer, Flexible Circuitry, Rigid/Flex Laminations

### Features/Benefits

- Unsurpassed Cycle Life
- Equal Pressure Over Laminate Surface
- Consistent Thermal Lagging from Cycle to Cycle
- Reduced Inventory by Eliminating Paper
- Reduces Labor Cost of Paper Handling and Disposal
- Reversion Resistant Compounds Handle High Temperature and Pressure
- Static-Free Compound Keeps Laminate Clean
- Helps Prevent Voids in Finished Laminate

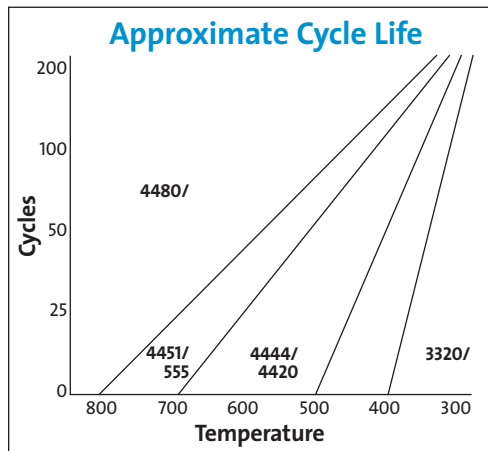


Fiberglass supported silicone rubber press pads

## COHlastic® Silicone Rubber — Typical Physical Properties

Physical Property		3320	4420	4444	4451	4480	555
<b>Color</b>		Red	Brown	Red	Black	Dark Gray	Charcoal Gray
<b>Thickness-Backing</b> (tolerances)	in.	.062 (±.005)	.045 (±.005)	.062 (±.005)	.078 (±.005)	.062 (±.005)	.250 (±.031)
	mm	1.59 (±.127)	1.15 (±.127)	1.59 (±.127)	1.98 (±.127)	1.59 (±.127)	6.35 (±.79)
	in.	.093 (±.005)	.062 (±.005)	.093 (±.005)	—	—	.500 (±.031)
	mm	2.38 (±.127)	1.59 (±.127)	2.38 (±.127)	—	—	12.7 (±.79)
	in.	.125 (±.010)	—	.125 (±.010)	—	—	—
mm	3.18 (±.26)	—	3.18 (±.26)	—	—	—	
<b>Reinforcement</b>		Fiberglass	Fiberglass	Fiberglass	Fiberglass	Fiberglass	Unsupported
<b>Weight by Thickness</b> lb./yd <sup>2</sup> (kg/m <sup>2</sup> )	0.045 (1.15)	—	3.0 (1.16)	—	—	—	—
	0.062 (1.59)	4.1 (2.2)	4.1 (2.2)	4.5 (2.4)	—	3.9 (2.08)	—
	0.078 (1.98)	—	—	—	4.0 (2.1)	—	—
	0.093 (2.38)	5.9 (3.2)	—	6.5 (3.5)	—	—	—
	0.125 (3.18)	7.8 (4.2)	—	9.0 (4.9)	—	—	—
	0.250 (6.35)	—	—	—	—	—	15 (8)
0.500 (12.70)	—	—	—	—	—	30 (16)	
<b>Durometer, Shore A by Thickness</b>	0.045 (1.15)	—	78	—	—	—	—
	0.062 (1.59)	74	74	79	—	81	—
	0.078 (1.98)	—	—	—	74	—	—
	0.093 (2.38)	66	—	72	—	—	—
	0.125 (3.18)	65	—	67	—	—	—
	0.250 (6.35)	—	—	—	—	—	60
0.500 (12.70)	—	—	—	—	—	60	
<b>Width</b>	in. (cm)	36 (91.4)	36 (91.4), 40 (102)	36 (91.4)	40 (102)	40 (102)	36" x 36" Sheets

**Important note to purchaser:** Values shown are typical and are not to be used for specifications. All data is subject to change without notice. Before using, the user should determine the suitability of the product for its intended use, and the user assumes all risk and liability in connection therewith. Specifications are also subject to change without notice.



### Other Printed Circuit Materials

Fluorglas® 371-5 PTFE/glass sheets and 1-2 mil. PTFE film are used as slip-sheets within the lay-up. Both products are available in a variety of thicknesses and coating weights, depending upon your specific application.

CHR® Pressure Sensitive Adhesive Tapes, including plating, fume and hot air leveling, are also used in printed circuit board manufacturing.

Saint-Gobain Performance Plastics is committed to providing a quality product that will assure integrity of the printed circuit board you provide for your customer.

### Layers of Kraft Paper\* Replaced by One Silicone Pad

Pad Thickness (in./mm)	Layers of Kraft
.045/1.15	3-4
.062/1.59	4-6
.078/1.98	5-7
.093/2.38	6-7
1.25/3.18	9-10

\*90 lb. (40.8 kg)



PERFORMANCE PLASTICS

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