

**Glass / PP**

Physical Properties	Typical Values
Composite Density	1.47 gm/cm <sup>3</sup>
Fiber Content %	60 wt (34.6vol)
Fiber Aereal Weight, g/m <sup>2</sup>	240 gm/m <sup>2</sup>
Thickness	0.011" / 0.27mm
Tape Width	165mm

Mechanical Properties	Typical Values
Axial Tensile Strength ply	813 Mpa (118 ksi)
Axial Tensile Modulus ply	26 Gpa (3.8 msi)
Transverse Tensile Strength	—
Transverse Tensile Modulus	—
Axial Flexural Strength	611 Mpa (89 ksi)
Axial Flexural Modulus	27.7 Gpa (4 msi)
Transverse Flexural Strength	—
Transverse Flexural Modulus	—
Compressive Strength	170 Mpa ( 24.8ksi)
Shear Strength	22.5 Mpa ( 3.3ksi)
Izod Impact	335 KJ/m2

Thermal and Processing Properties	Typical Values
Melt Point Temp - T <sub>m</sub>	160°C 320°F
Recommended Process Temp	210°C 410°F
Recommended Molding Pressure	100 psi

To the best of our knowledge, this document reports accurate and reliable information. However, these results will vary from lab to lab, and will be dependent upon molding techniques, sample preparation, and testing methods. Values must not be used for specification purposes. We recommend that each application be evaluated to assess the suitability of the product to meet specific requirements. Baycomp does not assume any liability that may result from the use of the document

**Glass / PP - Page 1****Section 1 - Chemical Product and Company Identification:**

Manufacturer:	Baycomp	Telephone Number:	(905) 332-0991
	5035 North Service Road, Bldg. A1,	Fax Number:	(905) 332-0433
	Burlington, Ontario L7L 5V2	Revision Date:	8/21/2009
	Canada	Product Identification:	GPP Panel

**Section 2 - Composition and Content:**

Carbon fibers impregnated with high molecular weight polymer (resin). Fibers encapsulated homogeneously with resin and formed into sheets (panels).

<u>Component</u>	<u>Cas#</u>	<u>% by Weight</u>	<u>TLV</u>	<u>PEL</u>
Carbon Fiber	7440-44-0	46-52	not established	not established
Resin	Proprietary	46-52	not established	not established

Resin component: This product does not contain reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard (29 DFR 1910)

**Section 3 - Hazards Identification:**

As is, this product should not be considered hazardous. Carbon fibers are bonded to the polymer and do not generate quantities of dust or particulate.

If the material is to be heated, cut, or sanded, then precautions in Sections 4-8 should be noted.

**Section 4 - First Aid Measures:**

Inhalation	Remove to a well-ventilated area. Get medical attention if irritation develops or persists.
Eye irritation	Flush eyes out thoroughly with water. Get medical attention.
Skin Irritation	Wash affected area thoroughly with soap and water. Get medical attention if irritation develops or persists. If hot or molten material burns skin, immerse the burned area in cold running water and obtain medical attention immediately.

**Section 5 - Fire Fighting Measures:**

Auto ignition temperature	:	360 °C (680°F)
Extinguishing Media and	:	Water spray and foam. Water is the best extinguishing medium. Carbon dioxide dry chemicals are not generally recommended because their lack of cooling capacity may permit re-ignition.
Special Fire Fighting Procedure	:	Standard procedures for class A fires, use self-contained breathing apparatus.
Usual Fire and Explosion Hazards	:	None

**Section 6 - Accidental Release Measures:**

Use filtered vacuum cleaner with grounded electrical cord, or wet sweeping methods to collect loose material (dust) and avoid circulating airborne fibrous particles during clean-up operations.

**Section 7 - Handling and Storing:**

Panels are solid articles and do not pose a health threat as shipped. Gloves should be provided for handling. Store at room temperature, at a moderate humidity level.

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**Section 8 - Exposure Controls/Personal Protection:**

Exposure to dusts or fibers generated through machining or sanding operations should be minimized through good general and/or local exhaust ventilation.

- Appropriate Hygienic Practices : Do not allow eye or skin contact. Avoid breathing nuisance fibers or dust. Wash thoroughly after handling and before eating, drinking or smoking.
- Personal Protective Equipment : Use gloves to reduce skin irritation or burns during processing or handling. Safety glasses. Appropriate protective clothing.

**Section 9 - Physical and Chemical Properties:**

Physical State	-	Solid	Solubility in Water-	Insoluble
Appearance	-	Black	% Volatile	-
Negligible				
Odour	-	None	Boiling Point	- N/A
Specific Gravity	-	1.27 g/cc	Vapour Pressure @ 20°C	- N/A
Melting Point	-	This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.	Vapour Density	- N/A
			Evaporation Rate	- N/A
			PH	- N/A
Processing Temperature	-	260°C (500 °F)		

**Section 10 - Stability and Reactivity:**

- Chemical Stability : Stable
- Hazardous Polymerization : Will not occur.
- Conditions to Avoid : Avoid prolonged exposure to temperatures that exceed the recommended processing conditions.
- Hazardous Decomposition Products : None known.

**Section 11 - Toxicological Information:**

No toxicological information exists on this product. Please see Section 2 for information on the components.

**Section 12 - Ecological Information:**

Not expected to present any significant ecological problems.

**Section 13 - Disposal Information:**

The waste material of this product is not expected to be hazardous. Sanitary landfill is recommended. Do not incinerate material since airborne carbon fibers may cause electrical malfunctions. Disposal must be done in accordance with relevant regulations.

**Section 14 - Transportation Information:**

This product is not regulated as dangerous or hazardous goods, therefore, no hazard identification is required.

**Section 15 - Regulatory Information:**

Baycomp complies with the regulation of the Workplace Hazardous Materials Information System (WHMIS). This product does not contain reportable quantities of substances subject to supplier notification.

**Section 16 - Other Information:**

The information contained herein is furnished without warranty of any kind. Product users should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees.