



PoliComp®

Policomp® sheets are covered by a **10-year** limited warranty, from purchase date, subject to the following conditions:

A. WEATHERABILITY

- the yellowness index (YI), measured in accordance with EN 16240 shall change less than 10 (ten) delta units during a 10-year period, compared to the original value. For sheets in the colour opal the change of the yellowness index measured in accordance with EN 16240 must be less than 19 (nineteen) delta units.
- the light transmission, measured in accordance with EN 16240 shall decrease by no more than 6 (six) percentage points, during a 10-year period, compared to the original value.

B. BREAKAGES

The 10 (ten) year warranty refers to the following properties:

- no breakage shall occur from the direct effects of weather conditions and the impact of hailstones.
- In this warranty the word "impact" refers to a hail simulation test, to be carried out on a damaged sample, during which no breakage occurs when impacting 20 mm. diam. polyamides balls with a speed of 21 m/s.

The warranty does not cover any other cause for impact breakage.

C. WARRANTY TERMS AND CONDITIONS

1. This warranty applies only to **Policomp®** sheets handled, stored, installed and maintained per **Gallina USA, LLC** instructions, and which have not come in contact with chemical or corrosive products.
2. This warranty applies to **Policomp®** sheets installed with the UV protected side correctly exposed to direct sunlight. Sheets and panels must be free from scratches and abrasions.
3. This warranty applies to **Policomp®** sheets with a minimum thickness of 2 (two) mm with UV protection. This warranty covers sheets and panels in the colours clear, opal and bronze, installed vertically or inclined.
4. Any request to apply the current warranty must be sent by the customer immediately, and no later than 10 days after the defect arises, to **Gallina USA, LLC**, enclosing the following documentation: sales invoice, delivery note, complete code of the product, defective quantity, copy of the present 10-year warranty, declaration that the application conditions of the current warranty have been observed.
5. The current warranty applies to products sold and installed in Europe.
6. The notification of damage shall not inhibit or interrupt the running of the warranty period.

D. WARRANTY EXCLUSIONS

This warranty has no effect if one or more of the following recommendations and instructions are not observed:

- **Policomp®** sheets shall be installed per our instructions and with the protected side facing outward.
- **Policomp®** sheets shall be stored sheltered from UV rays and from the rain before installation.
- **Policomp®** sheets must be protected from contact with chemical or corrosive agents.
- **Policomp®** sheets must not be scratched or dented and must be handled correctly.
- **Policomp®** sheets must not be treated with tools or techniques which can compromise their features or which can cause cracking. In case of thermoforming it is necessary to foresee an appropriate dehydration phase before starting the process.
- **Policomp®** sheets should not be sealed or cleaned with non-suitable products.
- On **Policomp®** sheets no incompatible gaskets and/or fastening elements should be used.
- **Policomp®** sheets should be used with a bending radius in accordance with **Gallina USA, LLC** technical recommendations.
- This warranty does not cover damages due to accidental crashes and vandalism.
- The warranty is not valid without the documentation listed at point C.4 or if the customer does not allow the inspection of the materials on the installation site or the dispatch of a significant sample for the relative tests.
- Installation, dismantling, transport and damages to third parties are excluded.

E. LIMITED LIABILITY

If the request for warranty lies within the covered period and the damage is justified, **Gallina USA, LLC** will replace the materials free of charge per the following table:

Time from purchase date	Percentage of material to be replaced
Up to 5 years	100%
6 th year	75%
7 th year	60%
8 th year	45%
9 th year	30%
10 th year	15%

If **Gallina USA, LLC** cannot replace the claimed products within a reasonable time, per their unchallengeable judgement, they may refund the original purchase price on a basis of the percentage indicated in the table above.

F. PLACE OF JURISDICTION

For any claims the sole place of jurisdiction is WI.

ANY OTHER REQUEST FOR DAMAGES OR LOSSES, BOTH DIRECT OR INDIRECT, FOR WHATEVER CAUSE, IS EXPRESSLY EXCLUDED FROM THE CURRENT WARRANTY

POLYCARBONATE SHEET

Care and Maintenance

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This document covers the care and maintenance of the following polycarbonate sheet products:

Policarb®

arcoPlus®

Tegolux®

TegoPlus®

Policomp®

Scudo®

General Polycarbonate Cleaning Guidelines

- Never use abrasive or high alkaline cleaners on any GALLINA polycarbonate products
- Do not leave cleaners on GALLINA polycarbonate for extended periods of time. Rinse immediately with cold, clean water.
- Do not apply cleaners in direct sunlight.
- Never use sharp objects, squeegees or razors on polycarbonate.
- Do not clean with gasoline.
- Always practice safety first and never step directly on a polycarbonate panel.
- Always test cleaners in a small inconspicuous area prior to cleaning entire panel to insure against adverse results.
- Avoid allowing the pressure washer spray tip to come too close to the panel. Pressure washers often have enough pressure at the spray tip to penetrate or tear the panel.
- Avoid dry cleaning, as sand and dust particles clinging to the exterior of the panels may scratch the surface.
- Avoid cleaning the interior surface of POLICARB with AF, as the effectiveness of the anti-condensate coating can potentially be diminished, depending on cleaning method or material used.

General Cleaning Instructions for all Products Listed at Left

All of the GALLINA polycarbonate products listed at left can be easily cleaned utilizing a soft sponge or cloth made from 100% cotton using lukewarm water and a mild dishwashing detergent. All surfaces should then be rinsed with cold water and dried with soft cotton cloth to reduce water spotting. In some instances this procedure may be inadequate and will require the use of additional cleaning agents. The agents listed below have all been approved for use at room temperature:

- Methyl alcohol
- Ethyl alcohol
- Butyl alcohol
- Isopropyl alcohol
- Heptane
- Hexane
- Petroleum ether (BP 65°)
- VM&P Naphtha

As is the case with all thermoplastic materials, certain chemicals can cause structural as well as surface damage and precautions need to be taken to avoid any aggressive cleaning agents. Should you desire to use a cleaning agent not on the approved list, please contact a GALLINA representative to inquire about chemical compatibility.

Specific cleaning instructions for large roofing and wall applications Gallina polycarbonate products used for large commercial roofing and wall applications can be cleaned in the same fashion as mentioned previously; sometimes, due to the sheets physical installation location, different cleaning apparatus need to be utilized. When polycarbonate products are installed in such applications, utilization of a pressure

POLYCARBONATE FLAT SHEET

Care and Maintenance *(continued)*

PALRAM

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washer with a fanned nozzle and mild detergent can assist in removing dirt buildup, algae and mold from the panels. This also eliminates the need to step directly on panels while attempting to clean unreachable areas.

Another method of cleaning large structures requires the use of a long-poled, car or RV washing pad. First, soak the panels with a mild soap and water solution, then proceed to scrub the panels with the car washing pad. Finish with a clean, cold water rinse.

Chemical Resistance of Polycarbonate Sheet at Room Temperature

Chemical	Concentration %*	Resistance	Chemical	Concentration %*	Resistance
Acetaldehyde		N	Butane		R
Acetic Acid	10	R	Butter		R
Acetic Acid	25 (concentrated)	LR (N)	Butyl Acetate		N
Acetone		N	Butyl Alcohol (Butanol)		R
Acetylene		R	Butylene Glycol		R
Acrylonitrile		N	Butyric Acid		N
Ajax Detergent		R	Calcium Chloride	Saturated	R
Allspice		N	Calcium Hypochlorite		R
Allyl Alcohol		LR	Calcium Nitrate		R
Alum (Aluminum Ammonium Sulfate)		R	Calcium Soap Fat		R
Aluminum Chloride	Saturated	R	Camphor Oil		N
Aluminum Oxalate		R	Carbolic Acid		N
Aluminum Sulfate	Saturated	R	Carbon Bisulfite		N
Ammonia (Gas)		N	Carbon Dioxide Gas (Moist)		R
Ammonia (Aqueous)		N	Carbon Disulfide		N
Ammonium Carbonate		LR	Carbon Monoxide		R
Ammonium Chloride		R	Carbon Tetrachloride		N
Ammonium Fluoride		N	Castor Oil		R
Ammonium Hydroxide		N	Catsup (Ketchup)		R
Ammonium Nitrate		R	Caustic Potash (Potassium Hydroxide)		N
Ammonium Sulfate	Saturated	R	Caustic Soda (Sodium Hydroxide)		N
Ammonium Sulfide		N	Chlorine Gas (Dry)		LR
Amyl Acetate		N	Chlorine Gas (Wet)		N
Amyl Alcohol		LR	Chlorobenzene		N
Aniline		N	Chloroform		N
Antimony Trichloride	Saturated	R	Chocolate		R
Aqua Regia (3 parts HCl:1 part HNO ₃)		LR	Chrome Alum	Saturated	R
Arsenic Acid	20	R	Chromic Acid	20	R
Automatic Switch Grease		R	Cinnamon		R
Automotive Waxes		LR	Citric Acid	10	R
Baby Lotion		R	Cloves		N
Bacon Fat		R	Coal Gas		R
Barium Chloride		R	Coca Cola		LR
Battery Acid		R	Cocoa		LR
Beer		R	Cod Liver Oil		R
Beet Syrup		R	Coffee		LR
Benzaldehyde		N	Cooking Oil		R
Benzene		N	Copper Sulfate	Saturated	R
Benzoic Acid		N	Cresol		N
Benzyl Alcohol		N	Cupric Chloride	Saturated	R
Betadine		R	Cuprous Chloride	Saturated	R
Bleach (Clorox)		R	Cyclohexane		R
Blood and Blood Plasma		R	Cyclohexanol		LR
Borax		R	Cyclohexanone		N
Boric Acid		R	DDT		R
Brake Fluid		N	Dekalin		R
Bromine		N	Detergent (most)		LR or R
Bromobenzene		N	Developing Solutions		N or LR

"Entries indicate the following: R - resistant, LR - limited resistance, N- not resistant"

*concentration of aqueous solution except where noted

Chemical Resistance of Polycarbonate Sheet at Room Temperature

Chemical	Concentration %*	Resistance	Chemical	Concentration %*	Resistance
Diamyl Phthalate		N	Kerosene		N
Diesel Fuel		R	Lactic Acid	20	R
Diethyl Ether (Ethyl Ether)		N	Lacquers and Thinners		N
Dimethyl Formaldehyde (DMF)		N	Laundry Detergents (Most)		LR or R
Dimethyl Sulfoxide (DMSO)		N	Ligroin (Hydrocarbon Mixture)		R
Dinonyl Phthalate (plasticizer)		LR	Lime Solution (2%) or paste		R
Doctyl Phthalate (plasticizer)		LR	Liquors or Liqueurs		R
Dioxane		N	Linseed Oil		R
Diphyl 5,3		LR	Loctite		N
Ethanol (Ethyl Alcohol) and Water	96	R	Lubricating Oils (Most)		LR or R
Ethanol (Ethyl Alcohol)	Pure	LR	Machine Oils (Most)		R
Ethyl Amine		N	Magnesium Chloride	Saturated	R
Ethyl Acetate		N	Magnesium Sulfate	Saturated	R
Ethyl Bromide		N	Manganese Sulfate	Saturated	R
Ethylene Chloride		N	Margarine		R
Ethylene Chlorohydrin		N	Mayonnaise		R
Ethylene Dichloride		N	Meat		R
Ethylene Glycol (Antifreeze)		LR	Mercuric Chloride	Saturated	R
Ferric Chloride	Saturated	R	Mercury		R
Ferrous Sulfate		R	Methane		R
Fish and Fish Oils		R	Methanol (Methyl Alcohol)	Pure	LR
Floor Polish		R	Methylamine		N
Formalin	10%	R	Methylcellusolve		N
Formic Acid	10% (30%)	R (LR)	Methylene Chloride		N
Freon TF		R	Methyl Ethyl Ketone (MEK)		N
Freon (all others)		N	Methylmethacrylate		N
Fruit Juices and Pulp		R	Milk		R
Gasoline		N	Mineral Oil		R
Gear Oil		R	Motor Oils (Most)		LR or R
Glazers Putty		R	Mustard		R
Glucose		R	Naphtha (Stanisol)		N
Glycerine		R	Nickel Sulfate		R
Glycerol		R	Nitric Acid	20	R
Glycols		R	Nitrobenzene		N
Glutaraldehyde	50%	R	Nitropropane		N
Grease, Automotive (Most)		R	Nitrous Oxide		N
Heptane		R	Nutmeg		N
Hexane		R	Oleic Acid		R
Hydrazine		N	Onions		R
Hydrochloric Acid	20 (Concentrated)	R (N)	Oxalic Acid	10	R
Hydrofluoric Acid	20	R	Oxygen		R
Hydrogen Peroxide	30	R	Ozone		N
Hydrogen Sulfide		R	Paprika		R
Iodine (aqueous solution)	5	R	Paraffin		R
Iodine		N	Pentane		R
Inks (Most)		R	Pepper		R
Isoamyl Alcohol		LR	Perchloric Acid	10 (concentrated)	R (LR)
Isopropyl Alcohol		R	Perchloroethylene		N

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 *concentration of aqueous solution except where noted

Chemical Resistance of Polycarbonate Sheet at Room Temperature

Chemical	Concentration %*	Resistance	Chemical	Concentration %*	Resistance
Petroleum		LR	Sodium Sulfide		N
Petroleum Ether		LR	Sodium Thiosulfate		R
Petroleum Oil (Refined)		R	Spindle Oil		R
Phenol		N	Stannous Chloride		R
Phosphoric Acid	10	R	Starch		R
Phosphorous Oxychloride		R	Styrene		N
Phosphorous Pentoxide	25	LR	Sugar	Saturated	R
Phosphorous Trichloride		N	Sulfur Dioxide (Gas)		R
Polyethylene		R	Sulfuric Acid	<50 (50<70)	R (LR)
Polyethylene Glycol		R	Sulfurous Acid	10	N
Potassium Acetate		LR	Sulfuryl Chloride		N
Potassium Aluminum Alum (Sulfate)	Saturated	R	Tapping Oil		R
Potassium Bichromate		R	Tartaric Acid	30	R
Potassium Bromate		R	Tear Gas (Chloracetophenone)		LR
Potassium Bromide		R	Terpineol		N
Potassium Chloride	Saturated	R	Tetrahydrofuran		N
Potassium Cyanide		N	Tetralin		N
Potassium Dichromate	Saturated	R	Thiophene		N
Potassium Hydroxide		N	Thyme		R
Potassium Metabisulfite	4	R	Titanium Tetrachloride		R
Potassium Nitrate	Saturated	R	Tobacco		R
Potassium Perchlorate	10	R	Toluene		N
Potassium Permanganate	10	R	Transformer Oils		R
Potassium Persulfate	10	R	Transmission Fluid		R
Potassium Rhodanide	Saturated	R	Trichloroacetic Acid	20	LR
Potassium Sulfate	Saturated	R	Trichloroethylamine		N
Propane		R	Trichloroethylene		N
Propargyl Alcohol		R	Trichloroethylphosphate		LR
Propionic Acid	20	R	Tricresylphosphite		N
Propionic Acid	Concentrated	N	Trisodium Phosphate		R
Propyl Alcohol (1-Propanol)		R	Turpentine		LR
Pyridine		N	Urea		R
Salad Oil		R	Vacuum Pump Oil		R
Salt		R	Vanilla		R
Silicofluoric Acid	30	R	Vanillin		R
Silicone Grease		R	Varnish		N
Silicone Oil		R	Vaseline		R
Silver Nitrate		R	Vegetable Juices		R
Soap (Ivory)		R	Vegetable Oils		R
Sodium Bicarbonate	Saturated	R	Vinegar		R
Sodium Bisulfate	Saturated	R	Water (Deminerlized or Sea)		R
Sodium Bisulfite	Saturated	R	White Spirit		N
Sodium Carbonate	Saturated	R	Wine, Whiskey, Vodka, Rum, Cognac		R
Sodium Chlorate		R	Witch Hazel		R
Sodium Chloride	Saturated	R	Worcester Sauce		R
Sodium Chromate		R	Xylene		N
Sodium Hydroxide		N	Zinc Chloride		R
Sodium Hypochlorite	5% Chlorine	R	Zinc Oxide		R
Sodium Nitrate		N	Zinc Stearate		R
Sodium Sulfate	Saturated	R	Zinc Sulfate		R

"Entries indicate the following: R - resistant, LR - limited resistance, N- not resistant"

*concentration of aqueous solution except where noted

The chemical resistance information in this table is based on our research and experience and may be considered solely as a basis for recommendation, but not as a guarantee, unless specifically furnished as such by SPS International.