

Your Plastic Experts

Piedmont Plastics® is committed to supporting the mass transit bus and rail markets with innovative compliant products and solutions.

We offer access to the most diverse vendors and resources available in the industry. Our network, coupled with our local distribution N. American footprint, make it easy to consider Piedmont Plastics when sourcing materials and solutions. We follow industry best practices and believe in a local, at home, feel while doing business with our valued customers.

Industries We Support

Most all of the materials offered are transparent tints and clear in color. These materials are most always balanced by compliance to price. Piedmont Plastics offers glazing materials compliant to the following DOT Codes:

DOT ANSI Z26.1-1996 --- AS2, AS3, AS4, AS5, AS6, AS7

Glazing & Partitions Portfolio

- · Polycarbonate and acrylic sheet and parts
- DOT AS2, AS4, AS5, AS6 and AS7 compliant
- Fritted polycarbonate sheet and parts for structural bonding to window frames and bodies
- Custom sheet lamination, colors and coatings available upon request











Polycarbonate Rail Glazing

Polycarbonate TG is a tough, hard-coated polycarbonate sheet built to deliver both clarity and strength in demanding rail applications.

Offered in 0.236" and 0.250" monolithic gauges, the material can be integrated into dual-glazed systems to meet strict U.S. Federal Railroad standards for impact resistance, ballistic protection, and flammability.

A thicker 0.460″ monolithic option independently satisfies FRA requirements.

Precision manufacturing ensures low distortion for excellent visual quality, while the advanced hard coat layer defends against scratches, harsh chemicals, and prolonged exposure to the elements.

Polycarbonate TG is available in clear as well as a selection of standard and custom tints.





Polycarbonate Bus Driver Guards

Polycarbonate DG sheet is a hard-coated polycarbonate designed for outstanding optical clarity and long-lasting durability.

Available in 0.236" and 0.375" thicknesses with a specified extrusion direction for proper installation, it meets the rigorous demands of bus glazing applications.

Polycarbonate DG offers excellent abrasion and chemical resistance, along with superior impact strength to protect against vandalism and reduce the risk of driver assaults.

Its clear finish allows for open interaction between drivers and passengers without compromising safety. Polycarbonate DG complies with DOT/FMVSS 205 and ANSI Z26.1 Item AS-4 standards, and is NHTSA-approved for use as a protective driver partition.



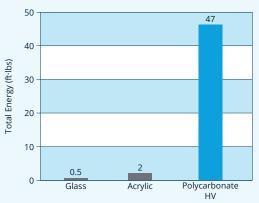


Polycarbonate Sheet

At Piedmont Plastics, we offer a comprehensive selection of transportation-grade polycarbonate sheet products engineered to meet the highest standards for safety, durability, and performance.

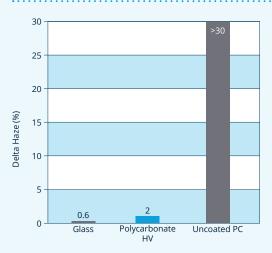
Our materials are specifically designed to withstand the demanding environments of the transportation industry - providing impact resistance, optical clarity, and compliance with key regulatory requirements across transit, rail, and specialty vehicle applications.

Impact Resistance



*Instrumented Impact per ASTM D 3763, sample thickness is 0.125" nominal

Abrasion Resistance*



^{*}Taber Abrasion per ASTM D 1044, 100 cycles, CS-10F wheel

Chemical Resistance*

Chemical Tested	Resistance Time
Acetone	>24 hrs
Ammonia (10% concentration)	>24 hrs
Antifreeze (50/50)	>24 hrs
Benzene	>24 hrs
Bleach (Clorox concentrated)	>24 hrs
Chloroform	>24 hrs
Denatured Alcohol	>24 hrs
Di (2-ethylhexyl) phthalate	>24 hrs
Diesel Oil	>24 hrs
Isopropyl Alcohol (IPA)	>24 hrs
Kerosene	>24 hrs
Methyl Alcohol	>24 hrs
Methyl Butyl Ketone	>24 hrs
Methyl Ethyl Ketone	>24 hrs
Methylene Chloride	>24 hrs
Naphthalene, 1-bromo-	>24 hrs
Potassium Hydroxide - Lye (10%)	>24 hrs
Sodium Hydroxide (10%)	>24 hrs
Toluene	>24 hrs
Turpentine	>24 hrs
Unleaded Gasoline (87 Octane)	>24 hrs
Vinegar	>24 hrs
Xylene	>24 hrs
Acids	
Hydrochloric Acid (20%)	>24 hrs
Nitric Acid (20%)	>24 hrs
Sulfuric Acid (20%)	>24 hrs

^{*}Tested in accordance to ASTM D 1308-02

Always keep hazardous chemicals away from uncoated edge of Polycarbonate Sheet







	Property	Test Method	Units	Values
Light Transmission, Clear @ 0.236", 0.250" ASTM D 1003 % 84 Light Transmission, Clear @ 0.400" ASTM D 1003 % 80 Chemical Resistance ANSI 226.1 - Pass Taber Abrasion № 100 Cycles, Delta Haze C.5-10 Philade B 500 g load Pass Pass Pass Pass Pass Pass Pass Pa	Physical			
Light Transmission, Clear @ 0.450" ASTM D 1003 % 80 Chemical Resistance ANSI Z26.1 - Pass Tabler Abrasion @ 100 Cycles, Delta Haze (C.5-16F Wheel @ 9.00 g load ASTM D 1044 % 2 Tabler Abrasion @ 100 Cycles, Delta Haze (C.5-16F Wheel @ 9.00 g load ASTM D 638 psl 9.50 Medicular of Eastericy ASTM D 638 psl 340,000 Florarial Strength, Ultimate ASTM D 638 psl 340,000 Florarial Strength ASTM D 638 psl 340,000 Florarial Strength ASTM D 695 psi 112,500 Load Impact Strength, Notched @ 0.125" ASTM D 696 ft floraria 16 Load Impact Strength, Notched @ 0.125" ASTM D 256 ft floraria 16 Load Impact Strength, Notched @ 0.125" ASTM D 256 ft floraria 16 Load Impact Strength, Notched @ 0.125" ASTM D 256 ft floraria 18 Load Impact Strength, Notched @ 0.125" ASTM D 256 ft floraria 18 Load Impact Strength, Notched @ 0.125" ASTM D 256 ft floraria	Specific Gravity	ASTM D 792	-	1.2
Chemical Resistance ANSI 226.1 — Pass Taber Abrasion @ 100 Cycles, Delta Haze ASTM D 1044 % 2 CS-10F Wheel @ 500 gload ASTM D 638 psi 9,500 Mechanical ASTM D 638 psi 340,000 Fearural Strength ASTM D 698 psi 132,500 Compressive Strength ASTM D 695 psi 12,500 Lood Impact Strength, Notched @ 0.125° ASTM D 256 ft lbs/in 16 Lood Impact Strength, Unnotched @ 0.125° ASTM D 256 ft lbs/in No Break Instrumented Impact @ 0.125° ASTM D 256 ft lbs/in No Break Instrumented Impact @ 0.125° ASTM D 256 ft lbs/in No Break Polisson's Ratio ASTM D 256 ft lbs/in No Break Rockwell Hardness ASTM D 785 - 0.38 Rockwell Hardness ASTM D 785 - 0.38 Rockwell Hardness ASTM D 696 In/in/irF 3.75 × 10° Heat Deflection Temperature @ 66 psi ASTM D 648 °F 220	Light Transmission, Clear @ 0.236", 0.250"	ASTM D 1003	%	84
Tabler Abrasion @ 100 Cycles, Deita Haze C S-10f Wheel @ 500 gload	Light Transmission, Clear @ 0.460″	ASTM D 1003	%	80
CS-10 Wheel © 500 g load ASTM D 1044 % 2 Mechanical Transle Strength, Ultimate ASTM D 638 psi 9,500 Modulus of Elasticity ASTM D 790 psi 13,500 Compressive Strength ASTM D 790 psi 13,500 Compressive Strength, Notched © 0.125" ASTM D 256 ft-lbs/in No Break Load Impact Strength, Unnorthed © 0.125" ASTM D 256 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 3763 ft-lbs 47 Posson's Ratio ASTM D 256 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 3763 ft-lbs 47 Posson's Ratio ASTM D 256 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 3763 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 256 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 256 ft-lbs/in No Break Instrumented Impact © 0.125" ASTM D 256 ft-lbs/in 2.0 2.0	Chemical Resistance	ANSI Z26.1	-	Pass
Tensile Strength Ultimate	Taber Abrasion @ 100 Cycles, Delta Haze CS-10F Wheel @ 500 g load	ASTM D 1044	%	2
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Rexural Strength	Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Compressive Strength ASTM D 695 psi 12,500 Izod Impact Strength, Notched @ 0.125" ASTM D 256 ft-lbs/in 16 Izod Impact Strength, Unnotched @ 0.125" ASTM D 256 ft-lbs/in No Break Instrumented Impact @ 0.125" ASTM D 3763 ft-lbs 47 Poisson's Ratio ASTM D 3763 ft-lbs 47 Poisson's Ratio ASTM D 785 - 0.38 Rockwell Hardness ASTM D 785 - M70/R118 Thermal Coefficient of Thermal Expansion ASTM D 696 in/in/in/F 3.75 x 10° Heat Deflection Temperature @ 264 psi ASTM D 648 *F 280 Electrical Dielectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10° Dissipation Factor @ 60 Hz ASTM D 150 - 0.00 Dissipation Factor @ 1 MHz ASTM D 150 <td< td=""><td>Modulus of Elasticity</td><td>ASTM D 638</td><td>psi</td><td>340,000</td></td<>	Modulus of Elasticity	ASTM D 638	psi	340,000
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tool impact Strength, Unnotched @ 0.125" ASTM D 256 ft-lbs/in No Break Instrumented Impact @ 0.125" ASTM D 3763 ft-lbs 47 Poisson's Ratio ASTM E 132 - 0.38 Rockwell Hardness ASTM D 785 - M70/R118 Thermal Coefficient of Thermal Expansion ASTM D 696 in/in/"F 3.75 x 10" Heat Deflection Temperature @ 264 psi ASTM D 648 "F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 "F 280 Electric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10" Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 10 MHz ASTM D 150 - 0.01 Arc Resistance - - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungs	Compressive Strength	ASTM D 695	psi	12,500
Instrumented Impact @ 0.125" ASTM D 3763 fet lbs 47 Poisson's Ratio ASTM E 132 - 0.38 Rockwell Hardness ASTM D 785 - 0.070 M70/R118 Thermal Coefficient of Thermal Expansion ASTM D 696 in/in/°F 3.75 x 10° Heat Deflection Temperature @ 264 psi ASTM D 696 in/in/°F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrica Ublectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10° Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 10 HHz ASTM D 150 - 0.001 Arc Resistance	Izod Impact Strength, Notched @ 0.125"	ASTM D 256	ft·lbs/in	16
Poisson's Ratio ASTM E 132 - 0.38 Rockwell Hardness ASTM D 785 - M70/R118 Thermal Coefficient of Thermal Expansion ASTM D 696 in/in/*F 3.75 x 10° Heat Deflection Temperature @ 264 psi ASTM D 648 °F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrical Dielectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 150 - 0.0009 Dissipation Factor @ 60 Hz ASTM D 150 - 0.001 Arc Resistance - - - 0.001 Arc Resistance -	Izod Impact Strength, Unnotched @ 0.125″	ASTM D 256	ft·lbs/in	No Break
Rockwell Hardness ASTM D 785 - M70/R118 Thermal Coefficient of Thermal Expansion ASTM D 696 in/in/"F 3.75 x 10° Heat Deflection Temperature @ 264 psi ASTM D 648 °F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrical Status D 150 - 2.96 Dielectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10° Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 1 MHz ASTM D 150 - 0.01 Arc Resistance - - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 495 Seconds 120 Flammability/Ballistic/Impact Seconds <t< td=""><td>Instrumented Impact @ 0.125"</td><td>ASTM D 3763</td><td>ft·lbs</td><td>47</td></t<>	Instrumented Impact @ 0.125"	ASTM D 3763	ft·lbs	47
Coefficient of Thermal Expansion	Poisson's Ratio	ASTM E 132	-	0.38
Coefficient of Thermal Expansion ASTM D 696 in/in/°F 3.75 x 10³ Heat Deflection Temperature @ 264 psi ASTM D 648 °F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrical Upon Electric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10¹6 Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 1 MHz ASTM D 150 - 0.01 Arc Resistance - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Ds (4.0 min) <100	Rockwell Hardness	ASTM D 785	-	M70/R118
Heat Deflection Temperature @ 264 psi ASTM D 648 °F 270 Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrical Use Deflecting Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm-cm 8.2 x 10 ¹⁶ Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 10 MHz ASTM D 150 - 0.01 Arc Resistance - - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Effecteral Railroad Administration 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Ds (4.0 min) < 100 c/200 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II -	Thermal			
Heat Deflection Temperature @ 66 psi ASTM D 648 °F 280 Electrical Dielectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm:cm 8.2 x 10¹⁶ Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 10 HHz ASTM D 150 - 0.01 Arc Resistance Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Se (1.00 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Ballistic - Pass	Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10⁻⁵
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Dielectric Constant @ 10 Hz ASTM D 150 - 2.96 Dielectric Constant @ 60 Hz ASTM D 150 - 3.17 Volume Resistivity ASTM D 257 Ohm·cm 8.2 x 10¹⁶ Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 1 MHz ASTM D 150 - 0.01 Arc Resistance - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Rallroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100	Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280
Dielectric Constant @ 60 Hz	Electrical			
Volume Resistivity ASTM D 257 Ohm·cm 8.2 x 10¹6 Dissipation Factor @ 60 Hz ASTM D 150 - 0.0009 Dissipation Factor @ 1 MHz ASTM D 150 - 0.01 Arc Resistance - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100	Dielectric Constant @ 10 Hz	ASTM D 150	-	2.96
Dissipation Factor @ 60 Hz	Dielectric Constant @ 60 Hz	ASTM D 150	-	3.17
Dissipation Factor @ 1 MHz ASTM D 150 - 0.01 Arc Resistance - - - Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Ds (4.0 min) <200 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II - Pass	Volume Resistivity	ASTM D 257	Ohm∙cm	8.2 x 10 ¹⁶
Arc Resistance	Dissipation Factor @ 60 Hz	ASTM D 150	-	0.0009
Stainless Steel Strip Electrodes ASTM D 495 Seconds 10 Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) C 200 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II - Pass	Dissipation Factor @ 1 MHz	ASTM D 150	-	0.01
Tungsten Electrodes ASTM D 495 Seconds 120 Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) C 200 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II - Pass	Arc Resistance	-	-	-
Dielectric Strength, in air @ 0.125 mils ASTM D 149 V/mil 380 Flammability/Ballistic/Impact Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) C 200 49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II - Pass	Stainless Steel Strip Electrodes	ASTM D 495	Seconds	10
Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is Solution ASTM E 662 Ds (1.5 min) Ds (4.0 min) C200 49 CFR Part 223 Ballistic Pass 49 CFR Part 223 Impact Type I & II Pass	Tungsten Electrodes	ASTM D 495	Seconds	120
Federal Railroad Administration 49 CFR Part 238, Appendix B ASTM E 162 Is < 100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Ds (4.0 min) < 200	Dielectric Strength, in air @ 0.125 mils	ASTM D 149	V/mil	380
49 CFR Part 238, Appendix B ASTM E 162 Is <100 49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min) Ds (4.0 min) <200	Flammability/Ballistic/Impact			
49 CFR Part 238, Appendix B ASTM E 662 Ds (1.5 min)	Federal Railroad Administration			
49 CFR Part 223 Ballistic - Pass 49 CFR Part 223 Impact Type I & II - Pass	49 CFR Part 238, Appendix B	ASTM E 162	Is	<100
49 CFR Part 223 Impact Type I & II – Pass	49 CFR Part 238, Appendix B	ASTM E 662		
	49 CFR Part 223	Ballistic	-	Pass
Bombardier Toxic Gas Generation SMP 800-C – Pass	49 CFR Part 223	Impact Type I & II	-	Pass
	Bombardier Toxic Gas Generation	SMP 800-C	-	Pass

*Typical Properties are not for specification purposes



