

TUFFAK DG+ POLYCARBONATE SHEET

ANTI-REFLECTIVE, REDUCED GLARE

TUFFAK DG+ sheet is a hard-coated polycarbonate product designed for high optical quality and exceptional durability. DG+ has the added benefit of a proprietary anti-reflective surface treatment that reduces glare and enhances driver visibility. The sheet is available in 0.236" and 0.375" thick with a specified direction of extrusion for proper installation. Manufactured to meet demanding bus glazing requirements, this product features abrasion resistance, chemical resistance, and long lasting performance. The high impact strength of this product provides excellent protection against vandalism and can help reduce driver assaults. The clarity of the glazing enables drivers to interact freely with passengers, while maintaining a high level of protection.

TUFFAK DG+ meets DOT/FMVSS 205/ANSI Z26.1 Item AS-4 and is NHTSA approved for use as a protective driver partition. TUFFAK DG+ carries a seven (7) year Limited Product Warranty against breakage for flat vertical applications. The terms of the warranty are available upon request.

APPLICATIONS

Reduced Glare for mass transit bus fleets

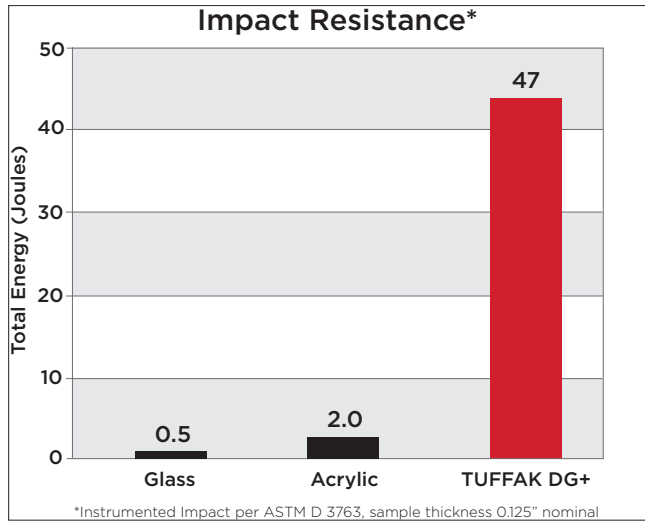
TYPICAL PROPERTIES*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.2
DG+ Light Transmission @ 0.236	ASTM D1003	%	95
DG+ Light Transmission @ 0.375"	ASTM D1003	%	93
Chemical Resistance	ANSI Z26.1	-	Pass
Taber Abrasion @ 100 Cycles, Delta Haze CS-10F Wheel @ 500 g load	ASTM D1044	%	2
MECHANICAL			
Tensile Strength, Ultimate	ASTM D638	psi	9,500
Modulus of Elasticity	ASTM D638	psi	340,000
Flexural Strength	ASTM D790	psi	13,500
Compressive Strength	ASTM D695	psi	12,500
Izod Impact Strength, Notched @ 0.125"	ASTM D256	ft-lbs/in	16
Izod Impact Strength, Unnotched @ 0.125"	ASTM D256	ft-lbs/in	No Break
Instrumented Impact @ 0.125"	ASTM D3763	ft-lbs	47
Poisson's Ratio	ASTM E132	-	0.38
Rockwell Hardness	ASTM D785	-	M70/R118
THERMAL			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.5 x 10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D648	°F	280
FLAMMABILITY			
Flammability of Interior Materials	FMVSS 302	-	Pass

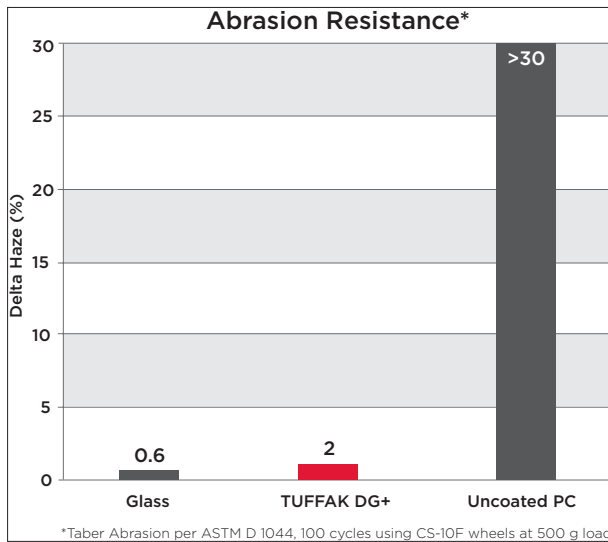
*Typical properties are not intended for specification purposes

TUFFAK® DG+ POLYCARBONATE SHEET

Chemical Resistance*

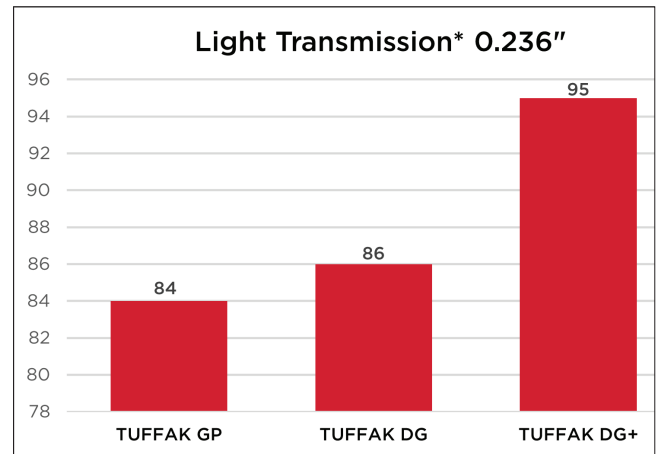


Chemical Tested	Resistance Time
Acetone	>24 hrs
Ammonia (10% concentration)	>24 hrs
Antifreeze (50/50)	>24 hrs
Benzene	>24 hrs
Bleach (Clorox concentrated)	>24 hrs
Chloroform	>24 hrs
Denatured Alcohol	>24 hrs
Di (2-ethylhexyl) phthalate	>24 hrs
Diesel Oil	>24 hrs
Isopropyl Alcohol (IPA)	>24 hrs
Kerosene	>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 TUFFAK Polycarbonate Sheet



*Light Transmission per ASTM D1003

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Curbell Plastics is a proud supplier of Plaskolite materials.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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