



## Abrasion Resistant - Polycarbonate

**Sheffield**  
Plastics Inc.  
A Bayer Company

### HYZOD® AR Abrasion and UV Resistant Sheet

- Full Seven Year warranty
- Glass-like surface hardness
- Hard coat for improved surface hardness
- Ultraviolet resistance and chemical protection
- 250 times stronger than float glass
- Stock Sheet Sizes or Cut-To-Size

HYZOD AR abrasion and UV-resistant sheet offers glass-like surface hardness coupled with the impact strength of standard polycarbonate. Additionally, HYZOD AR offers enhanced resistance from yellowing and hazing for an extended service life in high profile architectural glazing. HYZOD AR is warranted for seven years against breakage, excessive yellowing, hazing and loss of light transmission. Due to its abrasion-resistant coating, HYZOD AR cannot be formed like HYZOD GP and SunLife.

#### Standard Sizes:

**Thicknesses:** 1/8" -1/2"

**Length:** 72, 78, 96"

**Width:** 38, 48", 60", 72",

**Standard Colors:** Clear, Gray, Bronze

**Proven Applications:** Flat architectural and transportation glazing • Security applications

Property	Hyzod	Units	ASTM
<b>General</b>			
Specific Gravity	1.2	–	D-792
Water Absorption	0.15	%	D-570
<b>Optical</b>			
Transmittance .125"	85	%	D-1003
Haze .125"	1.0	%	D-1003
Δ Yellowness Index (3 yrs)	<2	–	D-1925
<b>Abrasion Resistance</b>			
Taber Resistance, 100 cycles	0.8	-1.5	D-1044
<b>Thermal</b>			
Deflection Temperature 264 psi	270	°F	D-648
Deflection Temperature 66 psi	280	°F	D-648
Coefficient of Thermal Expansion	3.75 X10 <sup>-5</sup>	in/in/°F	D-696
Smoke Density .125"	62.8	–	D-2843
Coefficient of Thermal Conductivity	1.35	BTU/hr/ft <sup>2</sup> /°F	C-177
Shading Coefficient Clear	1.02	–	ASHRAE
Shading Coefficient Gray/Bronze	.70	–	ASHRAE
<b>Mechanical</b>			
Tensile Strength Yield .125"	9,000	psi	D-638
Tensile Strength, Ultimate	9,500	psi	D-638
Tensile Modulus	340,000	psi	D-638
Compressive Strength	12,500	psi	D-695
Flexural Strength at 5% strain	13,500	psi	D-790
Flexural Modulus .125"	345,000	psi	D-790
Izod Impact Notched .125"	12-16	ft.lb/in of notch	D-256
Drop Ball Impact .125"	>200	ft.lbs	S.P. Test
Gardner Impact 1/2 " Diameter Dart	>320 @ 1/8"	in.lbs	D-3029
<b>Flammability</b>			
Horizontal Burn, AEB	<1	in	D-635
Horizontal Burn, ATB	<1	min	D-635
Ignition Temperature Self	1070	°F	D-1929
Ignition Temperature Flash	870	°F	D-1929

Los Angeles	San Diego	San Jose	Seattle	Portland	Phoenix	Denver	Dallas/FtWorth
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