



## Flame Inhibiting - Polycarbonate

**Sheffield**  
Plastics Inc.  
A Bayer Company

### HYZOD® FI

**HYZOD FI5700/5400** Sheets are clear, flame-inhibiting polycarbonate formulations for electrical & electronic device applications.

HYZOD FI offers V-0 ratings under the U.L. 94 test criteria in thicknesses from .060".

HYZOD FI also is UV stabilized in gauges greater than 1/8"

#### Applications:

- Transparent interior aircraft components
- Switchgear covers
- electrical devices
- Thermoformed equipment housings & other current carrying components.

#### Sizes:

**HYZOD 5700** - non U.V. stabilized .060, .080, .093, .125

**HYZOD 5400** -U.V. stabilized .187, .250

#### Typical Physical Properties

Property	HYZOD	Units	Test Method
<b>General</b>			
Specific Gravity FI5700	1.3	—	ASTM D-792
Specific Gravity FI5400	1.2	—	ASTM D-792
Water Absorption	0.15	%	ASTM D-570
<b>Mechanical</b>			
Tensile Strength Yield .125"	9,000	psi	ASTM D-638
Tensile Strength Ultimate	9,500	psi	ASTM D-638
Tensile Modulus	340,000	psi	ASTM D-638
Compressive Strength	12,400	psi	ASTM D-695
Flexural Strength at 5% Strain	13,500	psi	ASTM D-790
Flexural Modulus .125"	345,000	psi	ASTM D-790
Rockwell Hardness	118	R Scale	ASTM D-785
Gardner Impact 1/2" Diameter Dart .125"	>320	in. lbs	ASTM D-3029
Instrumental Impact .125"	>45	ft.lbs	ASTM D-3763
Poisson's Ratio	.3		
<b>Thermal</b>			
Heat Deflection Temp. 264 psi	270	°F	ASTM D-648
Heat Deflection Temp.66 psi	280	°F	ASTM D-648
Coefficient of Thermal Expansion	3.75 x 10 <sup>-5</sup>	in/in/°F	ASTM D-696
Coefficient of Thermal Conductivity	1.35	BTU/hr/ft2/°F	ASTM C-177
<b>Flammability</b>			
.060"	V-0	—	UL 94
Vertical BurnFAA 3 .060	Pass	—	FAR 25.853a.1,(1)
Oxygen Index	>28	%	ASTM D-2863
<b>Optical</b>			
Transmittance	>85	%	ASTM D-1003