

TECHNICAL DATA SHEET

PLASTICS | PLEXIGLAS® CoXT SHEET
AMERICAS



PLEXIGLAS® CoXT SHEET Multi-layered Engineered Sheet for Sanitary Applications

PLEXIGLAS® CoXT sheet is a melt-calendared multi-layered sheet comprised of a color-matched impact-modified, high gloss acrylic cap layer over a high-impact ABS core. Designed for thermoformed sanitaryware applications, this uniquely engineered sheet's outstanding balance of properties provides:

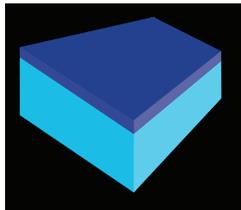
- Excellent optics from the acrylic first surface
- High-impact strength from ABS
- Flexibility in reinforcement with 2 or 3 layers
- Excellent weatherability
- Chemical and stain-resistance
- Lightweight with low specific gravity
- Easy fabrication and thermoforming

Understanding the Technology

Trinseo has offered multi-layer sheet products in various thicknesses, colors, and surface finishes for over a decade. The introduction of PLEXIGLAS® CoXT multi-layer sheet products perfectly combines our PLEXIGLAS® acrylic and MAGNUM™ ABS resins.

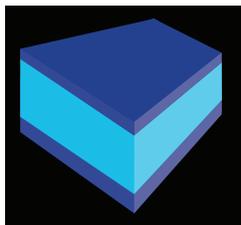


PLEXIGLAS® CoXT 2-layer



- = PLEXIGLAS® PMMA
 - = MAGNUM™ ABS
- 2 Layers, 2 Materials

PLEXIGLAS® CoXT 3-layer



- = PLEXIGLAS® PMMA
 - = MAGNUM™ ABS
- 3 Layers, 2 Materials

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Typical Values

	Test Method	Unit	Value
Physical properties			
Nominal thickness for data unless otherwise noted	-	in	0.110
Specific gravity	ASTM D-792	-	1.06
Rockwell hardness	ASTM D-785	R scale	102
Optical properties			
Refractive index (ND @ 73°F)	ASTM D-542	-	1.49
Luminous transmittance ¹	ASTM D-1003	%	< 3
Specular gloss at 60°	ASTM D-523	-	> 80
Mechanical properties			
Tensile strength, maximum	ASTM D-638	psi	5,000
Tensile strength, yield	ASTM D-638	psi	5,000
Tensile elongation	ASTM D-638	%	> 28.5
Tensile modulus of elasticity	ASTM D-638	psi	265,500
Flexural strength, maximum	ASTM D-790	psi	8,500
Flexural modulus of elasticity	ASTM D-790	psi	250,000
Notched izod impact @ 73°F (23°C)	ASTM D-256	ft-lb/in	20.2
Notched izod impact @ 32°F (0°C)	ASTM D-256	ft-lb/in	14.5
Un-notched izod impact @ 73°F (23°C)	ASTM D-256	ft-lb/in	20.2
Un-notched izod impact @ -22°F (-30°C)	ASTM D-256	ft-lb/in	14.5
Un-notched charpy @ 73°F (23°C)	ASTM D-256	ft-lb/in	10.1
Thermal properties			
Deflection temperature under Flexural Load @ 264psi – unannealed ¹	ASTM D-648	°F	185
Flammability ²			
Flame Class Rating	UL94		HB