

Evonik CYRO Paraglas CC Soundstop® GS Transparent Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Sheet

Material Notes:

Paraglas Soundstop GS CC sheet incorporates polyamide filaments and is typically used on bridges and overpasses. In the event of impact by a car or truck, the imbedded filaments will hold the broken sheet, preventing pieces from falling below. Information provided by Cyro Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Paraglas-CC-Soundstop-GS-Transparent-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	4.8 %	4.8 %	ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	ASTM D790
Compressive Strength	124 MPa	18000 psi	ASTM D695
Charpy Impact Unnotched	1.365 J/cm ²	6.496 ft-lb/in ²	Weathered 5 years; ASTM D4812
	1.365 J/cm ²	6.496 ft-lb/in ²	At -5°F; ASTM D4812
	1.365 J/cm ²	6.496 ft-lb/in ²	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	>= 82.2 °C	>= 180 °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	ASTM D648
Vicat Softening Point	115 °C	239 °F	ASTM D1525
Flame Spread	20 mm/min	0.80 in/min	ASTM D635
	@Thickness 15.0 mm	@Thickness 0.591 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	1.0 %	1.0 %	ASTM D1003
	1.5 %	1.5 %	Weathered 5 years AZ; ASTM D1003
Yellow Index	<= 1.0 %	<= 1.0 %	ASTM E 313
	1.5 %	1.5 %	Weathered 5 years AZ; ASTM E 313
Transmission, Visible	92 %	92 %	Weathered 5 years AZ
	92 %	92 %	ASTM D1003

Descriptive Properties	Value	Comments
Resistance to Brushfire	Class2	15mm, EN1794-2
Resistance to stone projectiles	Pass	15mm, EN1794-1
Self Ignition Temperature °F	910	ASTM D1929
Smoke Density, % (15mm thick)	20	ASTM D2843
Sound Transmission Loss, dB (15mm)	32	ASTM E 90
Sound Transmission Loss, dB (20mm)	34	ASTM E 90
Sound Transmission Loss, dB (25mm)	36	ASTM E 90

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