

Evonik Corporation Plexiglas® GS CC Soundstop® Extruded Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Extruded

Material Notes:

Description: PLEXIGLAS® GS cast acrylic has the following properties:absolutely colorless and clearbreak-resistantunequaled resistance to weathering and ageinghigh-quality surface and planarity; brilliant or satin (PLEXIGLAS SATINICE®)sheets, blocks, tubes, round and square rods2 to 160 mm solid sheet / block thicknessstandard size up to 3050 x 2030 mmmore than 50 standard colorsgood resistance to dilute acidslimited resistance to organic solventsgood resistance to alkalisvery easy to work, similar to hardwoodeasy to thermoform over wide range of conditionseasily and firmly bonded, e.g. with reaction adhesives (e.g. ACRIFIX® 190, 192)burns more or less like hardwood; very little smoke generationmax. service temperature approx. 80 °CSpecific Notes for this Material: UV-absorbing solid sheet special grade, flame retarded with integrated PA threads, corresponds to ZTV-Lsw 88, EN 1793 and EN 1794 for noise control barriers.Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-GS-CC-Soundstop-Extruded-Acrylic.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Modulus of Elasticity	3.30 GPa	479 ksi	ISO 527
Flexural Strength	>= 98.0 MPa	>= 14200 psi	ISO 178
Fatigue Strength	38.0 MPa	5510 psi	Alternating Bending Strength (Unnotched Specimen); ISO 4137

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	DIN 53752A
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Vicat Softening Point	110 °C	230 °F	ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	50 %	50 %	Midnight Blue Grade; DIN 53752-A
	51 %	51 %	Smokey Brown Grade; DIN 53752-A
	56 %	56 %	Sky Blue Grade; DIN 53752-A
	57 %	57 %	Sea Green Grade; DIN 53752-A
	60 %	60 %	Steel Blue Grade; DIN 53752-A

Optical Properties	Metric	English	Comments
	92 %	92 %	Forest Green Grade; DIN 53752-A
	83 %	83 %	Spring Green Grade; DIN 53752-A
	92 %	92 %	Clear Grade; DIN 53752-A

Electrical Properties	Metric	English	Comments
Shielding Effectiveness	30 dB	30 dB	Weighted Sound Reduction Index; EN 1793-2, ZTV-Lsw 88
	@Thickness 15.0 mm	@Thickness 0.591 in	
	32 dB	32 dB	
	@Thickness 20.0 mm	@Thickness 0.787 in	Weighted Sound Reduction Index; EN 1793-2, ZTV-Lsw 88
	33 dB	33 dB	Weighted Sound Reduction Index; EN 1793-2, ZTV-Lsw 88
	@Thickness 25.0 mm	@Thickness 0.984 in	

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