

Evonik Corporation Plexiglas® GS 245 Cast Acrylic

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

Material Notes:

Description: PLEXIGLAS® GS 245 is a cast acrylic with weather resistance specially developed to meet the high optical requirements of the aviation industry. The material is UV-absorbing and can be supplied in both clear-transparent and transparent colored grades. Typical applications are helicopter canopies, glider canopies, sports plane glazing and ultralights. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-GS-245-Cast-Acrylic.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183, ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-2/1B/5, ASTM D638
Elongation at Break	5.5 %	5.5 %	ISO 527-2/1B/5, ASTM D 638

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	EN 2155-12, ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	105 °C	221 °F	ISO 71-2Ae, ASTM D648
Vicat Softening Point	115 °C	239 °F	ISO 306-B-50
Flame Spread	35.6 mm/min	1.40 in/min	Fire Rating; ASTM D635
	36.0 mm/min	1.42 in/min	Fire Rating; EN 3844-2
Shrinkage	1.5 %	1.5 %	16 min
	@Thickness 6.35 mm, Temperature 160 °C	@Thickness 0.250 in, Temperature 320 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489, ASTM D542
Haze	0.50 %	0.50 %	Original State; EN 2155-9, ASTM D1003
	1.0 %	1.0 %	after artificial weathering; EN 2155-9, ASTM D1003
Transmission, Visible	89 %	89 %	after artificial weathering; ASTM D1003

Optical Properties	91 % Metric	91 % English	Original State; EN 2155-5, ASTM D7100 Comments
UV Transmittance	<= 1.0 % @Wavelength 290 - 330 nm	<= 1.0 % @Wavelength 290 - 330 nm	

Descriptive Properties	Value	Comments
Optical Deviation	Max 4 minutes	EN 2155-7 (ASTM D637)

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