

## Evonik CYRO ACRYLITE® GAR Abrasion Resistant Cell Cast Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA)

**Material Notes:**

ACRYLITE GAR sheet is a cell cast acrylic sheet coated with 3M 906 abrasion resistant coating. ACRYLITE GAR sheet has excellent abrasion and chemical resistant properties with outstanding optical quality. ACRYLITE GAR sheet provides optical clarity, abrasion resistance, chemical resistance, ease of fabrication, light weight (half the weight of glass), and strength (many times the impact strength of glass). Information Provided by Evonik CYRO

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-CYRO-ACRYLITE-GAR-Abrasion-Resistant-Cell-Cast-Acrylic-Sheet.php](http://www.lookpolymers.com/polymer_Evonik-CYRO-ACRYLITE-GAR-Abrasion-Resistant-Cell-Cast-Acrylic-Sheet.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	4.2 %	4.2 %	ASTM D638
Modulus of Elasticity	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	Milled; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	61.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	34.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Thermal Conductivity	0.187 W/m-K	1.30 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
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	25.4 mm/min	1.00 in/min	ASTM D635
Flash Point	488 °C	910 °F	ASTM D1929

Optical Properties	Metric	English	Comments
Transmission, Visible	92 %	92 %	ASTM D1003, Total

Descriptive Properties	Value	Comments
Smoke Density Rating (%)	10	ASTM D2843

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