

ACRYLITE® Sheet Resist 65

Acrylic
Evonik Cyro LLC

Message:

Continuously manufactured ACRYLITE® Resist sheet is a versatile, thermoplastic material developed for the retail display and glazing markets as well as other markets requiring strength, appearance and weatherability.

High optical quality ACRYLITE® Resist sheet provides the beautiful look of acrylic with much greater impact strength for durability during manufacturing, shipping, and in-store use. Rigid, tough, and lightweight, ACRYLITE® Resist is easily fabricated and machined, including cutting, routing, forming, and cementing.

ACRYLITE® Resist is ideal for use in:

- P-O-P Displays
- Store Fixtures
- Glazing
- General Fabrication

General Information			
Features	Good Chemical Resistance		
	Good Toughness		
	Good Weather Resistance		
	High Impact Resistance		
	High Rigidity		
	Machinable		
Uses	Displays		
	Glazing		
Appearance	Clear/Transparent		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength	46.2	MPa	ASTM D638
Tensile Elongation (Yield)	6.6	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Gardner Impact	4.52	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	71.0	°C	ASTM D648
Continuous Use Temperature	71.1	°C	
Vicat Softening Temperature	98.9	°C	ASTM D1525
CLTE - Flow	7.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate			ASTM D635
1.52 mm	36	mm/min	
5.99 mm	25	mm/min	
Self Ignition Temperature	399	°C	ASTM D1929
Smoke Density			ASTM D2843
1.50 mm	2.2	%	
6.00 mm	3.8	%	
Forming Temperature	132 to 177	°C	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (20°)	140		ASTM D523
Refractive Index	1.490		ASTM D542
Transmittance	91.0	%	ASTM D1003

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