

# ACRYLITE® Sheet Optical MR

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

## Message:

ACRYLITE® Optical (MR) sheet is a continuously manufactured acrylic sheet that has excellent abrasion and chemical resistant properties with outstanding optical quality. It is available with coating on one side or two sides. While two-side coated sheet provides maximum protection, one-side coated sheet offers economical advantages for applications where only one side of the sheet is exposed. In addition, the uncoated side is ideal for silk screening.

### Applications

ACRYLITE® Optical (MR) sheet is ideal for a wide variety of applications including:

- One-Sided Coating
- Glazing
- P-O-P Displays
- Store Fixtures
- Menu Boards
- Electronic Displays
- Museum Displays
- Signs & Directories
- Furniture & Interiors
- Framing
- Two-Sided Coating
- Sports Arena Glazing
- Architectural Glazing
- Security Glazing
- Automotive Interiors
- Instrument Cluster Panels

General Information			
Features	High strength		
	Optical		
	Good wear resistance		
	Scratch resistance		
	Good chemical resistance		
	Definition, high		
Uses	Displays		
	Electronic display		
	Furniture		
	Car interior parts		
	Car dashboard		
	Assembled glass		
Appearance	Clear/transparent		
Forms	Sheet		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638

Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	91.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.19	W/m/K	ASTM C177
Flammability	Nominal Value	Unit	Test Method
Burning Rate	25	mm/min	ASTM D635
Self Ignition Temperature	443	°C	ASTM D1929
Smoke Density	1.0	%	ASTM D2843
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	ASTM D1003
Additional Information			

#### Abrasion Resistance of the Coating

Rotary Brass Wool (25 cycles) : < 1% Change in Haze (Proprietary method)

Taber Abrasion (100 cycles) : < 2% Change in Haze (ASTM D1044)

Falling Sand (3,000 grams) : < 10% Change in Haze (DIN 52348)

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

