

# ACRYLITE® Sheet LED Sign Grade

Acrylic  
Evonik Cyro LLC

Message:

ACRYLITE® LED sign grade (formerly Resist SG) is a continuously manufactured, thermoplastic sheet product developed specifically for the sign market. It is produced utilizing innovative polymers and the same proprietary technology used when manufacturing ACRYLITE® extruded sheet. ACRYLITE® LED sign grade is the universal sign product which combines light weight and high optical quality with outstanding ease of fabrication and greater impact strength than standard acrylic sheet.

General Information			
Features	Good Toughness		
	Good Weather Resistance		
	High Impact Resistance		
	High Rigidity		
	Machinable		
Appearance	Colorless		
	Colors Available		
	White		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	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	2410	MPa	ASTM D638
Tensile Strength	61.4	MPa	ASTM D638
Tensile Elongation (Yield)	4.8	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	34	J/m	ASTM D256
Instrumented Dart Impact (Total)	6.24	J	ASTM D3763
Gardner Impact	2.26	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.0	°C	ASTM D648
Continuous Use Temperature	71.1	°C	
Vicat Softening Temperature	106	°C	ASTM D1525

CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (20°)	125		ASTM D523
Refractive Index	1.490		ASTM D542
Transmittance	90.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Forming Temperature	132 to 177	°C	

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#### Recommended distributors for this material

### 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

