ACRYLITE® Sheet FF

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® extruded is the highest quality continuously manufactured sheet on the market today. Using a proprietary, innovative process, ACRYLITE® extruded sheet products are economical, provide tight thickness tolerance, high optical characteristics and low stress levels. ACRYLITE® extruded sheet is readily available in a variety of standard sizes, thicknesses and colors.
ACRYLITE® extruded is a lightweight, rigid and weather-resistant thermoplastic that is dimensionally stable, resistant to breakage and can be easily fabricated and cemented.
Because of its virtually distortion-free clarity, it is well suited for use in a variety of applications.
Skylights
Window glazing
Retail displays
Signs
Optical displays
Picture framing

General Information			
UL YellowCard	E54671-244557	E54671-244558	E54671-517042
Features	Good Chemical Resistance Good Dimensional Stability Good Weather Resistance High Rigidity Machinable		
Uses	Displays Glazing		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Clear/Transparent		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.19	g/cm³	ASTM D792
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	93		ASTM D785
Barcol Hardness	48		ASTM D2583
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

Compressive Strength	117	MPa	ASTM D695
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)	90.6	°C	ASTM D648
Continuous Use Temperature	71.1	°C	
Vicat Softening Temperature	104	°C	ASTM D1525
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Specific Heat (25°C)	1460	J/kg/°C	
Thermal Conductivity	0.19	W/m/K	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength [1] (3.18 mm)	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.60		
1 kHz	3.30		
1 MHz	2.80		
Dissipation Factor			ASTM D150
60 Hz	0.060		
1 kHz	0.040		
1 MHz	0.020		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate (3.18 mm)	25	mm/min	ASTM D635
Self Ignition Temperature	454	°C	ASTM D1929
Smoke Density	4.8	%	ASTM D2843
Forming Temperature	149	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.490		ASTM D542
Transmittance	92.0	%	ASTM D1003
NOTE			
1.	Method A (Short-Time)		

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