

Typical Properties of CIRLEX®

Property		Test Method
Physical		
Specific Gravity	1.42	
Moisture Absorption (% Regain @ 73°F, 50% RH)	0.75	ASTM E595
Mechanical		
Tensile Strength, (PSI)		ASTM D638
23°C	32490	
100°C	21400	
200°C	17400	
250°C	16500	
Tensile Modulus (KPSI)		ASTM D638
23°C	330	
100°C	488	
200°C	402	
250°C	381	
Shear Strength, (PSI)		ASTM D3846
100°C	6400	
200°C	5400	
250°C	5000	
Yield Point @ 3% Elong. (PSI)		
23°C	6112	
200°C	5490	
Thermal		
Thermal Conductivity W/m K	0.17	
CTE (23° - 350° C), µm/m °C		ASTM E831
in-plane	30	
thru-thickness	118	
Tg (°C)	~351°C	
Specific Heat (J/g K)	1.09	
UL Rating UL File # - E39505		UL 94V0
Electrical		
Dielectric Strength V/mil	2790	
Dielectric Constant KHz DC @ 10KHz		
25°C	3.45	
Dissipation Factor	0.0040	ASTM D150
Volume Resistivity Ohm-cm	7.0 x 10 ¹⁵	ASTM D257

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Warranty

User is responsible for determining whether the product is fit for a particular purpose and suitable for user's application.

Limitation of Liability

Fralock will not be liable for any loss or damage arising from the product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

The above are average values representing the several different thicknesses tested between 0.006" and 0.125" thick.

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ISO & AS Registered

ITAR Compliant

Space Qualified

QPL MIL-DTL-83528