



## Clear - Flame Retardant

## Makrofol FR 7-2

### Description:

Makrofol FR 7-2 is a transparent polycarbonate film that carries a UL VO listing. This highly flame retardant film offers a first surface velvet and a second surface very fine matte texture. Makrofol FR 7-2 is available in thickness from .010' to .020".

### Applications:

Spacers, Trade Show Displays

### Typical Properties

Typical Properties	Test Method	Units	Values
<b>Physical</b>			
Specific Gravity	ASTM D792		1.30
Conversion Factor		ft <sup>2</sup> /lb-mil	148
Water Absorption (Immersion @ 73°F 24 hours)	ASTM D570	%	0.30
First Surface Gloss- 60° angle, black inked second surface	ASTM D2457	gloss unit	3.0 – 4.5
First Surface Roughness R3Z	ISO 4288	microns	19-23
<b>Optical</b>			
Haze	ASTM D1003	%	89.9
Light Transmission	ASTM D1003	%	90
Yellowness Index	ASTM E313		1
<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D882	psi	10,600
Tensile Strength, Break	ASTM D882	psi	8,530
Elongation @ Break	ASTM D882	%	5
Tear Strength, Initiation	ASTM D1004	lb/in	1,100
<b>Flammability</b>			
UL Listing	UL 94	min. thickness 0.010"	V-0

# Product Data

## Makrofol FR 7-2

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## Component - Plastics

BAYER MATERIALSCIENCE L L C

FILM PRODUCTS, 245 HEW PARK DR, BERLIN CT 06037

FR(y)

Polycarbonate (PC), "MAKROFOL", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
CL	0.25 - 0.75	V-0 -	- -	- -	80 -	80 -	80 -

Comparative Tracking Index (CTI): -

High-Voltage Arc Tracking Rate (HVTR): -

Dielectric Strength (kV/mm): -

Dimensional Stability (%): -

High Volt, Low Current Arc Resis (D495): -

Volume Resistivity (10xohm-cm): -

(y) - Denotes surface texture and is replaced by any two numbers separated with a hyphen.

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

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Underwriters Laboratories Inc®

