

Makrofol® Polycarbonate Film PCVM Velvet/Matte



PRODUCT OVERVIEW

PCVM is a clear, translucent polycarbonate film with a first surface velvet and a second surface matte. PCVM is available in thicknesses from 0.005" - 0.030".

Applications include:

- Automotive instrument panels and displays
- Control panels
- Nameplates
- Labels
- Dials
- Scales

TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	UNITS	VALUES
PHYSICAL			
Specific Gravity	ASTM D792		1.2
Conversion factor		ft ² /lb-mil	160
Water absorption (immersion @73°F 24 hours)	ASTM D570	%	0.33
First surface gloss 80° angle, black inked second surface	ASTM D2457	gloss unit	3.0-4.5
First surface roughness R3Z	ISO 4288	microns	16-23
OPTICAL			
Haze	ASTM D1003	%	
Light transmission	ASTM D1003	%	90
Yellowness index	ASTM E313		1
MECHANICAL			
Tensile strength, yield	ASTM D882	psi	8,700
Tensile strength, break	ASTM D882	psi	8,600
Elongation@break	ASTM D882	%	120
Tear strength, initiation	ASTM D1004	lb/in	1,100
THERMAL			
Heat deflection temperature 1.82 mpa	ISO 75	° F	270
0.45 mpa		° F	288
Vicat softening temperature	ISO 306	° F	315
FLAMMABILITY			
UL Listing	UL 94	minimum thickness 0.015"	V-2
	UL 94	minimum thickness 0.005"	VTM-2
Burn rate	FMVSS302		<-100

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