

Makrofol (PC film) / Standard

PC film, clear, translucent, one side velvet, one side gloss.
Automotive instrument panels and displays, control panels, nameplates, labels, dials, and scales.

Property	Test Condition	Unit	Standard	Value	test performed on resin	colors: clear
Mechanical properties (23 °C/50 % r.h.)						
Tensile strength at break		lb/in ²	ASTM D 882	8600		
Tensile stress at yield		lb/in ²	ASTM D 882	8600		
Elongation at break		%	ASTM D 882	120		
Tear strength, initial		lbf/in	ASTM D 1004	1110		
Thermal properties						
Deflection temperature under load	66 psi	°F	ASTM D 648		288	
Deflection temperature under load	264 psi	°F	ASTM D 648		270	
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D 696		3.9 E-5	
UL94 Flame Class	Thickness tested: 0.38 mm	Class	UL 94	V-2		
Electrical properties (23 °C/50 % r.h.)						
Volume resistivity, Tinfoil electrodes		Ohm-m	ASTM D 257		1.0 E+16	
Surface resistivity		Ohm	ASTM D 257		1.0 E+15	
Dielectric constant, Tinfoil electrodes	60 Hz	-	ASTM D 150		3	
Dielectric constant, Tinfoil electrodes	1 MHz	-	ASTM D 150		2.9	
Other properties (23 °C)						
Water absorption	73 °F; immersion 24 h	%	ASTM D 570	0.3		
Specific gravity		-	ASTM D 792	1.20		
Material specific properties						
Refractive index		-	ASTM D 542		1.586	
Total luminous transmittance	Illuminant C	%	ASTM D 1003	90		
Yellowness index		-	ASTM E 313	0.90		

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