



# NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution



## FLAMETEC™ KYTEC® PVDF TYPICAL PROPERTIES

Property	Units	Value <sup>(1)</sup>	ASTM Method
<b>Physical</b>			
Specific Gravity	g/cm <sup>3</sup> (lbs/in <sup>3</sup> )	1.77–1.79 (0.064–0.065)	D 792
Moisture Absorption	%	0.02	D 570
<b>Mechanical</b>			
Hardness	Shore D	76-80	D2240
Tensile Strength @ Break @ 23°C	psi	6000	D 638
Tensile Strength @ Yield @ 23°C	psi	6500	D 638
Elongation @ Break @ 23°C	%	50-250	D 638
Elongation @ Yield @ 23°C	%	10	D 638
Tensile Modulus @ 23°C	psi	225,000	D 638
Flexural Strength @ 23°C	psi	6960-8000	D 790
Flexural Modulus @ 23°C	psi	250,000	D 790
Izod Impact (Unnotched) @ 23°C	J/m (ft-lb/in)	80–130 (1.5–2.5)	D 256
Compressive Strength @ 23°C (min)	Mpa (psi)	61 minimum (8850)	D 695
Coefficient of Friction			
Static	—	0.15–0.25	D 1894
Dynamic	—	0.10–0.25	D 1894
<b>Thermal</b>			
Heat Distortion Temperature			
@ 66 psi (0.46 Mpa)	TMA °C (°F)	125–140 (257–284)	—
@ 264 psi (1.82 Mpa)	°C (°F)	105–115 (221–240)	—
Thermal Conductivity @ 23°C–130°C	W/m·k (BTU/in)/(HR·ft <sup>2</sup> ·F)	0.19–0.22 (1.3–1.5)	C 177
Coef of Thermal Expansion	°C <sup>-1</sup> (°F <sup>-1</sup> )	10–12 × 10 <sup>-5</sup> (5.6–6.7 × 10 <sup>-5</sup> )	D 696
Brittleness Temperature	°C (°F)	-43 (-46)	D 2236
<b>Flammability</b>			
Factory Mutual		4910 Listed	File #3D1Q5.AM
Limiting Oxygen Index	%	43	D 2863
<b>Electrical</b>			
Volume Resistivity	ohm/cm (ohm/in)	1.4 × 10 <sup>15</sup> (5.5 × 10 <sup>15</sup> )	D257
Dielectric Constant			
@ 60 Hz	—	6.8	D 150
@ 1 KHz	—	6.9	D 150
@ 1 MHz	—	6.0	D 150
Dissipation Factor			
@ 60 Hz	—	0.032	D 150
@ 1 KHz	—	0.013	D 150
@ 1 MHz	—	0.153	D 150
Arc Resistance, minimum	(sec)	50	D 495
Dielectric Strength, 0.125" thick	V/mil	310	D 149
Dissipation Factor	60 Hz	0.0019	D 150

<sup>1</sup> Physical properties of plastic sheeting are represented as "Typical". Information contained herein is considered accurate to the best of our knowledge. It is offered for your consideration and investigation, and is not to be construed as a representation or warranty expressed or implied. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use may vary and are beyond the control of Compression Polymers Corp., therefore, Compression Polymers Corp. disclaims any liability incurred as a result of the use of this product in accordance with the data contained in our physical property charts. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use the products in such a manner as to infringe any patent, domestic or foreign.

The "Typical" properties of our plastic sheet cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!

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