

## iON PVC®

Material: Rigid Foam PVC

Updated: 01/20/22 (MDW)

Notes: The table depicting the typical properties of iON PVC® sheets appears below.

Conditions, units and values in U.S. Customary units are presented in the table within parentheses.

All the results depicted in this table were obtained by following the indicated ASTM.

Property	Conditions (U.S. Customary)	ASTM Method	Units - SI (U.S. Customary)	Value (U.S. Customary)	
Physical				3mm	6mm
Density		D-1505	g/cm <sup>3</sup> (lb/ft <sup>3</sup> )	.52 (32.5)	.49 (30.6)
Water Absorption	24 hr. @ 23°C	D-570	%	0.5	0.8
Mechanical					
Flexural Modulus	1.3 mm/min (0.05 in/min)	D-790	MPa (psi)	1100 (159,500)	
Thermal					
Long Term Service Temperature			°C (°F)	-10 to 55 (14 to 131)	
Heat Deflection Temperature	Load: 1.82 MPa (264psi)	D-648	°C (°F)	59 to 63 (138 to 145)	
Vicat Softening Temperature	Load: 1 kg (2.2 lb)	D-1525	°C (°F)	74 to 78 (165 to 172)	
Coefficient of Linear Thermal Expansion		D-696	10-5/°C (10-5/°F)	6.7 (3.7)	
Thermal Conductivity		C-177	W/m <sup>2</sup> K (Btuin./hr-ft <sup>2</sup> -°F)	0.07 (0.49)	
Electrical					
Surface Resistance	Ketley	D-257	Ohm	5 x 10 <sup>15</sup>	
Volume Resistance	Ketley	D-257	Ohm-cm	2 x 10 <sup>16</sup>	