

## Garlock 681

### MATERIAL PROPERTIES\*

<b>Composition:</b>	Vegetable fiber with glue-glycerin binder
<b>Temperature<sup>2</sup>, °F (°C), Maximum:</b>	+212 (+100)
<b>Pressure<sup>2</sup>, Maximum, psig (bar):</b>	200 (13.8)
<b>P x T (max.)<sup>2</sup>, psig x °F (bar x °C):</b>	40,000 (1,300)
<b>Meets Specification:</b>	ASTM-D-1170-62T Grade P-3313-B, SAE J90 Grade P-3313-B, MIL-G-12803C Grade P-3313-B and HH-P-96F Type 1

### TYPICAL PHYSICAL PROPERTIES\*

<b>ASTM F36</b>	<b>Compressibility</b> at 1000psi, range, %:	25-40	
<b>ASTM F36</b>	<b>Recovery</b> , %:	40	
<b>ASTM F152</b>	<b>Tensile</b> , Across Grain, psi (N/mm <sup>2</sup> ):	2000 (14)	
<b>ASTM D149</b>	<b>Dielectric Properties</b> , range, volts/mil.		
	Sample conditioning	1/16"	1/8"
	None	-	21
	96 hours at 100% Relative Humidity:	-	-
<b>ASTM F586</b>	<b>Design Factors</b>	1/16" & Under	1/8"
	"m" factor:	9.2	5.5
	"y" factor, psi (N/mm <sup>2</sup> ):	2700 (18.6)	2400 (16.5)

### IMMERSION PROPERTIES\* - ASTM F146 Fluid Resistance after Five Hours

	Distilled Water 70°F (21°C)	ASTM IRM #903 300°F (150°C)	ASTM Fuel B 70-85°F (20-30°C)
<b>Thickness Increase, (%)</b>	<30	<5	<5
<b>Weight Increase, (%)</b>	<90	<15	<15

#### Notes:

This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties based on 1/32" (0.8mm) sheet thickness unless otherwise mentioned.

\* Values do not constitute specification Limits



Toll Free (866) 442-7194  
 Direct (620) 364-3600  
 Fax (620) 364-3654  
 customer.service@kanseal.com