
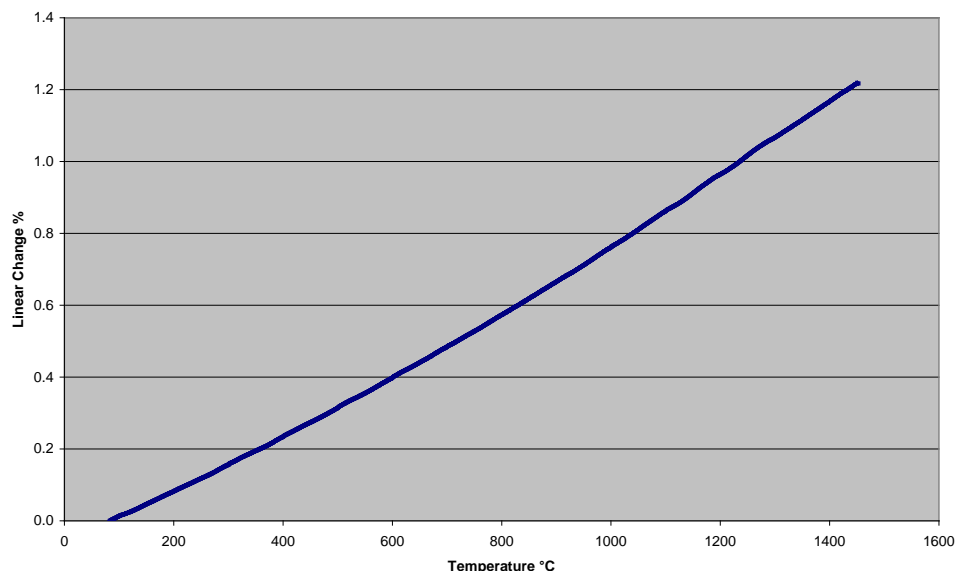


**Emhart Glass 301 - Material Technical Data Sheet**

<b>Mix ID:</b>	<b>301</b>			
<b>Mix Name:</b>				
<b>Type:</b>	<b>Cast</b>			
<b>Application:</b>	Expendables used for glass container production. Excellent glass corrosion resistance with good resistance to thermal shock.			
<b>Typical:</b>	<b>Porosity:</b>	<b>18%</b>	<b>Chemistry:</b>	<b>Wt.%</b>
 <b>REFRACTORY PRODUCTS</b>	<b>Bulk Density:</b>	<b>3.1 g/cc</b>	<b>Al<sub>2</sub>O<sub>3</sub></b>	<b>45</b>
			<b>SiO<sub>2</sub></b>	<b>19</b>
	<b>Apparent Density</b>	<b>3.8 g/cc</b>	<b>ZrO<sub>2</sub></b>	<b>35</b>
			<b>Fe<sub>2</sub>O<sub>3</sub></b>	<b>0.2</b>
	<b>MOR:</b>	<b>3100 PSI</b>	<b>NaO</b>	<b>0.2</b>
			<b>CaO</b>	<b>N/A</b>
	<b>PCE:</b>	<b>32</b>	<b>MgO</b>	<b>N/A</b>
			<b>TiO<sub>2</sub></b>	<b>0.2</b>
	<b>Linear Change on Reheat:</b>	<b>10 x 10<sup>-6</sup> (in/in/°C)</b>	<b>Other</b>	<b>0.4</b>

**Thermal Expansion of E84**



All data is subject to reasonable deviations and not to be used for specification purposes.