

Coefficient of Thermal Expansion for Polybutenes

<u>Product Name</u>	<u>(Vol/Vol°F) / (Vol/Vol°C)</u>
Polybutene 8	0.00038/0.00068
Polybutene 18	0.000375/0.000675
Polybutene 24	0.000364/0.000655
Polybutene 32	0.000357/0.000643
Polybutene 122	0.00034/0.000612
Polybutene 128	0.00032/0.000576

Example: How much expansion would be expected if 23,000 gallons of Polybutene 122 was heated from 180°F to 250°F?

Answer: 547.4 gal

$$\text{Vol. Expansion, gal} = 23,000 \text{ gal. } (250^{\circ}\text{F} - 180^{\circ}\text{F}) (0.00034 \text{ gal/gal}^{\circ}\text{F})$$

