

**E. I. DU PONT DE NEMOURS & CO., INC.
POLYMER PRODUCTS DEPARTMENT
TECHNICAL SERVICES LABORATORY**

**TECHNICAL REPORT: 213
SEPTEMBER 1987**

**MULTITEMPERATURE PHYSICAL
PROPERTIES FOR ZYTEL® 70G33 HS1L,
MINLON® 22C, MINLON® FE6204,
RYNITE® 530, RYNITE® 545, AND
RYNITE® 555**

REPORTED BY: T. F. BUTHERUS

TABLE 18

COEFFICIENTS OF LINEAR THERMAL EXPANSION

<u>MATERIAL</u>	<u>TEMPERATURE RANGE (°F)</u>	<u>FLOW (MACHINE) DIRECTION (in/in/°F x 10⁻⁵)</u>	<u>TRANSVERSE DIRECTION (in/in°F x 10⁻⁵)</u>
Zytel® 70G33 HS1L	-40 to 392	1.7	5.6
Minlon® 22C	-40 to 392	2.2	3.2
Minlon® FE6204	-40 to 392	1.7	4.6
Rynite® 530	-22 to 122	2.3	6.9
	122 to 176	1.0	6.1
	176 to 428	1.3	7.2
Rynite® 545	-22 to 122	1.4	6.0
	122 to 176	0.0	8.5
	176 to 428	0.4	6.9
Rynite® 555	-22 to 122	1.6	5.7
	122 to 176	0.7	9.9
	176 to 428	0.7	7.9