



## PHYSICAL/MECHANICAL PROPERTIES

TEI STYLE NO.: TE-370 DESCRIPTION: 70a ±5 FKM

MATERIAL SPEC.: TE-370 REV.: None

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	70a	±5	72

### NORMAL PHYSICAL PROPERTIES

*ASTM D 1412 OR ASTM D 1414*

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Tensile Strength, <i>psi</i> (ASTM-D-412)	820 min	N/A	1720
Specific Gravity (ASTM-D-297)	N/A	N/A	N/A
Tensile Stress at 100% Elongation, <i>psi</i>	270 min	N/A	280
Tensile Stress at 300% Elongation, <i>psi</i>	N/A	N/A	N/A
Ultimate Elongation, %	200 min	N/A	230
<u>Compression Set</u> , <i>ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 100 °C, % Original Deflection</i>	35 max	N/A	26.5
<u>Compression Set</u> , <i>ASTM D 395, Method B, Type 1, 22 hrs. at 200 °C, % of Original Deflection</i>	25 max	N/A	18.7

### API 6A RETAINED FLUID RESISTANCE

*The compound shall, within the limits below, resist the effect of ASTM #3 oil after total immersion at 212 °F for 70 hrs., per ASTM D 471*

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Volume Change, %	-5 / +10	N/A	+4
Hardness Change, <i>Shore A or IRHD</i>	±7	N/A	+2
Tensile Strength, % Change	-10 / +20	N/A	+1
Ultimate Elongation, % Change	-20 / +20	N/A	-5.2
Tensile Stress, <i>Change at 100% Elongation</i>	N/A	N/A	N/A