



PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-170 DESCRIPTION: 70a ±5 NBR

MATERIAL SPEC.: _____ REV.: N/A

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	70 ±5	±5	74

NORMAL PHYSICAL PROPERTIES

ASTM D 1412 OR ASTM D 1414

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Tensile Strength, <i>psi</i>	2000 min.	N/A	2220
Tensile Stress at 50% Elongation, <i>psi</i>	N/A	N/A	N/A
Tensile Stress at 100% Elongation, <i>psi</i>	325 min.	N/A	627
Tensile Stress at 300% Elongation, <i>psi</i>	1650 min.	N/A	2097
Ultimate Elongation, %	280 min.	N/A	350
<u>Compression Set, ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 212 °F (100 °C), % Original Deflection</u>	35 max.	N/A	8.5
<u>Compression Set, ASTM D 395, Method B, Type 1, 22 hrs. at 158 °F, % of Original Deflection</u>	N/A	N/A	N/A

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 - +20	N/A	+2.91
Hardness Change, Shore A or IRHD	±7	N/A	-2
Tensile Strength, % Change	±20	N/A	-15.2
Ultimate Elongation, % Change	±40	N/A	-28.6
Tensile Stress, Change at 100% Elongation	±40	N/A	-20