



PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-390 DESCRIPTION: 90a ±5 FKM

MATERIAL SPEC.: _____ REV.: N/A

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	90a	±5	91

NORMAL PHYSICAL PROPERTIES

ASTM D 1412 OR ASTM D 1414

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Tensile Strength, <i>psi</i>	1500min.	N/A	1604
Tensile Stress at 50% Elongation, <i>psi</i>	N/A	N/A	1027
Tensile Stress at 100% Elongation, <i>psi</i>	650 min.	N/A	773
Tensile Stress at 300% Elongation, <i>psi</i>	N/A	N/A	N/A
Ultimate Elongation, %	70 min.	N/A	180
<u>Compression Set, ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 212 °F (100 °C), % Original Deflection</u>	30 max.	N/A	8.1
<u>Compression Set, ASTM D 395, Method B, Type 1, 22 hrs. at 158 °F, % of Original Deflection</u>	N/A	N/A	5.6

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	+.7
Hardness Change, Shore A or IRHD	±5	N/A	-2
Tensile Strength, % Change	±25	N/A	-5.7
Ultimate Elongation, % Change	±40	N/A	+5.5
Tensile Stress, Change at 100% Elongation	N/A	N/A	N/A