



PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-190 DESCRIPTION: 90a ±5 NBR

MATERIAL SPEC.: _____ REV.: N/A

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	90a	±5	89

NORMAL PHYSICAL PROPERTIES

ASTM D 1412 OR ASTM D 1414

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Tensile Strength, <i>psi</i>	2500 min.	N/A	2705
Tensile Stress at 50% Elongation, <i>psi</i>	900 min.	N/A	1272
Tensile Stress at 100% Elongation, <i>psi</i>	N/A	N/A	
Tensile Stress at 300% Elongation, <i>psi</i>	N/A	N/A	
Ultimate Elongation, %	75 min.	N/A	141
<u>Compression Set, ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 212 °F (100 °C), % Original Deflection</u>	20 max.	N/A	12
<u>Compression Set, ASTM D 395, Method B, Type 1, 22 hrs. at 158 °F, % of Original Deflection</u>	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, %	-10/+15	N/A	+14
Hardness Change, <i>Shore A or IRHD</i>	±7	N/A	-5
Tensile Strength, % Change	-10/+20	N/A	-6.5
Ultimate Elongation, % Change	±20	N/A	-16
Tensile Stress, <i>Change at 100% Elongation</i>	N/A	N/A	