



PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-190-H DESCRIPTION: 90a-95a Hydrogenated NBR (HSN)
 MATERIAL SPEC.: _____ REV.: None

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	90a	+5/-0

NORMAL PHYSICAL PROPERTIES

ASTM D 1412 OR ASTM D 1414

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS
Tensile Strength, <i>psi</i>	2500 min.	
Tensile Stress at 50% Elongation, <i>psi</i>	N/A	
Tensile Stress at 100% Elongation, <i>psi</i>	1500 min.	
Tensile Stress at 300% Elongation, <i>psi</i>	N/A	
Ultimate Elongation, %	100 min.	
<u>Compression Set</u> , ASTM D 1414 or ASTM D 395, Method B, Type 1, 70hrs. at 212 °F (100 °C), % Original Deflection	N/A	
<u>Compression Set</u> , ASTM D 395, Method B, Type 1, 22 hrs t 212 °F, % of Original Deflection	25 max.	

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
Volume Change, %	20 max.	±20 – Original
Hardness Change, Shore A or IRHD	8 max.	±8 – Original
Tensile Strength, % Change	15 max.	±15 – Original
Ultimate Elongation, % Change	25 max.	±25 – Original
Tensile Stress, Change at 100% Elongation	N/A	