



## PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-170-H DESCRIPTION: 65a – 75a Hydrogenated NBR (HSN)

MATERIAL SPEC.: \_\_\_\_\_ REV.: N/A

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

### NORMAL PHYSICAL PROPERTIES

*ASTM D 1412 OR ASTM D 1414*

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	TYPICAL
Tensile Strength, <i>psi</i>	2500 min.	←	
Tensile Stress at 50% Elongation, <i>psi</i>	N/A	N/A	
Tensile Stress at 100% Elongation, <i>psi</i>	1350 min.	←	
Tensile Stress at 300% Elongation, <i>psi</i>	N/A	N/A	
Ultimate Elongation, %	150 min.	←	
<u>Compression Set, ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 212 °F (100 °C), % Original Deflection</u>	N/A	N/A	
<u>Compression Set, ASTM D 395, Method B, Type 1, 22 hrs. at 158 °F, % of Original Deflection</u>	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	TYPICAL
Volume Change, %	25 max.	± 25 – original	
Hardness Change, <i>Shore A or IRHD</i>	10 max.	± 10 – original	
Tensile Strength, % Change	35 max.	± 35 – original	
Ultimate Elongation, % Change	35 max.	± 35 – original	
Tensile Stress, <i>Change at 100% Elongation</i>	N/A	N/A	