



PHYSICAL (MECHANICAL) PROPERTIES

TEI STYLE NO.: TE-260 (RD-3522-1) DESCRIPTION: 60a Neoprene
 MATERIAL SPEC.: ASTM D-2000 3BE610 A14 Z1 C12 Z2 F17 REV.: None

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	ACTUAL
Hardness, ASTM D 2240, Shore A or ASTM 1415, IRHD	60a	± 5	

NORMAL PHYSICAL PROPERTIES

ASTM D 1412 OR ASTM D 1414

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	ACTUAL
Tensile Strength, <i>psi</i>	1450	Min.	
Tensile Stress at 50% Elongation, <i>psi</i>			
Tensile Stress at 100% Elongation, <i>psi</i>			
Tensile Stress at 300% Elongation, <i>psi</i>			
Ultimate Elongation, %	350	Min.	
<u>Compression Set, ASTM D 1414 or ASTM D 395, Method B, Type 1, 70 hrs. at 212 °F (100 °C), % Original Deflection (Z1)</u>	20	Max.	
<u>(C12) Resistance to Ozone Test Method D-1171, Quality Retention Rating, %</u>	100	Min.	

(A14) HEAT RESISTANCE, TEST METHOD D-573, 70 HRS. @ 100°C

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	ACTUAL
Hardness Change, <i>Shore A or IRHD</i>	+15	Max.	
Tensile Strength, % Change	-15	Max.	
Ultimate Elongation, % Change	-40	Max.	



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(Z2) FLUID RESISTANCE, ASTM D-471, NO. 1 OIL, 70 HRS. @ 100°C

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	ACTUAL
Volume Change, %	± 10	Max.	
Hardness Change, <i>Shore A or IRHD</i>	+5 / -10	←	
Tensile Strength, % <i>Change</i>	-10	Max.	
Ultimate Elongation, % <i>Change</i>	-20	Max.	

(F17) LOW-TEMP. RESISTANCE, TEST METHODS D-2137, METHOD A, 9.3.2 @ -40°C

REQUIREMENT	QUALIFICATION VALUE	CONTROL LIMITS	ACTUAL
Non-brittle after 3 min.	Pass	←	