

C-TECH RUBBER P/L.

MATERIAL SPECIFICATION 65 DUROMETER RUBBER CORD FOR: EARTHMOVER TIRE SEALS	SPEC NO. DATE: 4-08-02 SUPERSEDES: 1-25-01
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Table I

PHYSICAL REQUIREMENTS

DESCRIPTION	REQUIREMENT	METHOD OF TESTING	SAMPLE PREPARATION
Tensile Strength, Minimum (psi)	3000	ASTM D412, Die C Test Method A	Dumbbell specimens approximately 0.075" thick cut from maximum cross section dimension of the cord shall be prepared by slicing the actual cord.
Ultimate Elongation, Minimum (%)	425	ASTM D412, Die C, Test Method A.	Same as for tensile strength
Density, Variation from manufacturer's nominal	±0.03, within the range of 0.95 – 1.45	ASTM D297, Hydrostatic Method	2" long piece of cord
Compression Set, Maximum (%)	18	ASTM D395, Test Method B, 22 hours at 158°F (70°C)	½" long piece of cord, ends must be flat and parallel, may be sliced or buffed
Hardness	65 ± 5	ASTM D573, Type A, except that the determination shall be made on the O.D. of the actual cord. The hardness shall be the maximum reading taken immediately after firm contact is made between Presser foot and cord.	None, use piece of cord
Air Oven Aging -Tensile Strength, Minimum % of original value	85	ASTM D573, 96 hours at 158 ° F (70 ° C)	Same as for tensile strength
-Ultimate Elongation, Minimum % of original value	80		
-Hardness, increase from original value	15		
Tension Set, maximum % Tensile	16	ASTM D412, Die C, Test Method A, stretch to 75% of ultimate elongation, hold 10 minutes, allow 10 minute rest period	Same as for tensile strength
Tear Strength, Minimum (lb/in)	350	ASTM D624, Die B	Same as for tensile strength
Acetone Extract, Maximum (%)	10	ASTM D297	As required in ASTM D297
Water Absorption weight change, Maximum (%)	5	ASTM D471, 46 hours at 158 ° F (70 °), immersed in distilled water.	2" long pieces of strip prepared as for tensile strength
Ozone Resistance, rating number	0	ASTM D 1171 except that the determination shall be made on the actual cord. Test to be 104 ° F (40°C) with ozone level of 50 mPa for 72 hours.	None