



**PRODUCT SPECIFICATION**  
 THE GOODYEAR TIRE & RUBBER CO.  
 GOODYEAR CHEMICAL AKRON , OH 44306-3299  
 USA: 1-800-548-8107

**NATSYN RNS 7597**

Description : NATSYN RNS 7597 is a high cis (98.5% Typical) polyisoprene containing a nonstaining FDA-regulated antioxidant . It is packaged as 34 kg (75 pound) bales.

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PROPERTY	LIMITS	TEST METHOD
Appearance	white to off white bale with a peach cast .	Visual
Volatile matter , %	<= 0.50	ASTM D 5668
Extractables , %	<= 3.0	ASTM D 5774
Ash , %	<= 0.6	ASTM D 5667
Mooney, ML-4' @ 100 C	74 +/- 6	ASTM D 1646

**VULCANIZATE PROPERTIES**

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VP Description : rheometer, 160 C, 1 deg arc, 1.7 Hz, 30 min chart, range 50	Typical Values	
ASTM Ref #: 2084	Midpoint	Range
ML, dNm	6.4+/- 1.5	4.9 to 7.9
MH, dNm	35.2+/- 2.6	32.6 to 37.8
ts1, minutes	3.3+/- 0.8	2.5 to 4.1
t'c25, minutes	4.9+/- 1.2	3.7 to 6.1
t'c50, minutes	5.7+/- 1.2	4.5 to 6.9
t'c90, minutes	7.8+/- 1.2	6.6 to 9

**STRESS/STRAIN PROPERTIES**

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SS Description : 40 min at 135 C cure	Typical Values	
ASTM Ref #: 412	Midpoint	Range
300% Modulus, MPa	11.8+/- 1.7	10.1 to 13.5
Tensile, MPa, minimum	30.0+/-	to
Elongation, %	568+/- 90	478 to 658

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**This product should be stored in its original packaging in a dry atmosphere away from heat and ultraviolet light .**

**As a guideline , NATSYN RNS 7597 should be re-tested every 18 months following the date of manufacture .  
The most appropriate test would be Mooney .**

**Goodyear test methods are available upon request .**

**Check with your Goodyear salesperson to confirm the revision number of the most recent specification .**