



PRODUCT SPECIFICATION

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

NATSYN 2205

Description : **NATSYN 2205** is NATSYN 2200, a high cis (98.5% Typical) polyisoprene containing a nonstaining FDA -regulated antioxidant .

It is produced and selected to e relatively gel free and is tested to minimize gel particles greater than 1000 microns.

It is packaged as 34 kg (75 pound) bales.

PROPERTY	LIMITS	TEST METHOD
Appearance	opaque white to translucent light gray bale	Visual
Extractables , %	<= 3.0	ASTM D 5774
Volatile matter , %	<= 0.50	ASTM D 5668
Ash, %	<= 0.6	ASTM D 5667
Calendar gel (particles/300 gm), 1000 microns (1.0 mm) or greater	none	BMT-OP-2537
Mooney, ML-4' @ 100 C	80 +/- 10	ASTM D 1646

VULCANIZATE PROPERTIES

VP Description : Monsanto Rheometer @ 160 C, 1 deg Arc, 1.7 Hz, 30 min Chart, Range 50	Typical Values	
ASTM Ref #: 2084	Midpoint	Range
ML, dNm	7.6+/- 1.5	6.1 to 9.1
MH, dNm	35.6+/- 2.6	33 to 38.2
ts1, minutes	3.6+/- 0.8	2.8 to 4.4
t'c25, minutes	5.0+/- 1.2	3.8 to 6.2
t'c50, minutes	5.6+/- 1.2	4.4 to 6.8
t'c90, minutes	7.9+/- 1.2	6.7 to 9.1

STRESS/STRAIN PROPERTIES

SS Description : 40 Min @ 135 C Cure	Typical Values	
ASTM Ref #: 412	Midpoint	Range
300% Modulus, MPa	10.5+/- 1.7	8.8 to 12.2
Tensile, MPa, minimum	24.4+/-	to
Elongation, %	580+/- 90	490 to 670

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

As a guideline , NATSYN 2205 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 .