. Department of Commerce Philip M. Klutznick Secretary

ational Bureau of Standards Ernest Ambler, Director

National Bureau of Standards

Certificate

Standard Reference Material 388k

Isobutylene - Isoprene (Butyl) Rubber

This Standard Reference Material consists of an IIR Type 218 isobutylene - isoprene rubber to be used in checking the performance of Mooney viscometers when applied to rubber and rubber-like materials.

Bales of the dried rubber weighing approximately 34 kg were wrapped in polyethylene film and packaged in cardboard cartons. One thousand gram samples were taken at the start and during the filling of each fifth container. Two measurements of Mooney viscosity were made on each sample at both 100 and 125 °C according to the procedures described in ASTM Method D1646-74.

Temperature	Mooney Viscosity(ML1 + 8)*	Standard Deviation**	Range of Measured Values
100 °C	70.2	0.24	69.5-70.6
125	48.6	0.19	48.2-49.0

^{*} ML1 + 8 indicates that a large rotor was used; the sample was warmed in the viscometer for one minute before starting the motor; and the readings were taken 8 minutes after starting the motor.

This lot of rubber was evaluated in the Center for Materials Science, Polymer Science and Standards Division, by G.W. Bullman and G.B. McKenna.

The technical and support aspects involved in the certification and issuance of this Standard Reference Material were coordinated through the Office of Standard Reference Materials by W.P. Reed and R.K. Kirby.

Washington, D.C. 20234 March 19, 1980

George A. Uriano, Chief Office of Standard Reference Materials

^{**} The standard deviation (based on 114 measurements) expresses the variation to be expected by a user and represents the combined effects of method imprecision and material variability.