

U. S. Department of Commerce  
Alexander H. Trowbridge,  
Acting Secretary

National Bureau of Standards  
A. V. Astin, Director

## Certificate

### Standard Reference Material 390

### Butyl Rubber

### (Standard for Mooney Viscosity)

This Standard Reference Material was selected from a lot of II R Type 218, prepared from a single slurry tank of crumb. Sheets of the dried rubber weighing approximately 27 kg were wrapped with polyethylene film, and packaged into cardboard cartons. To evaluate the lot, a 1000-gram portion was taken at the start and during the filling of each fifth container.

Two determinations of Mooney viscosity were made on each portion according to the procedure described in ASTM Designation D 1646-63 using integral dies in the viscometer. The Mooney viscosity of this rubber is  $74.5 \pm 1.5$  ML 1+8 (100°C), the uncertainty reflects permissible variations in the viscometer.

This lot of rubber was evaluated in the National Bureau of Standards Institute for Materials Research, by George E. Decker, George W. Bullman, and Albert M. Brown of the Evaluation Criteria Section, Robert D. Stiehler, Chief.

WASHINGTON, D. C. 20234  
April 12, 1967

W. Wayne Meinke, Chief  
Office of Standard Reference Materials