

## CARBOPOL® 956 POLYMER

### General Product Characteristics

Appearance: White, fluffy powder  
 Odor: Slightly acetic

Test	Specification	Lot Test Frequency <sup>1</sup>	Test Procedure
<b>Identification</b> Infrared spectrum	Pass	--- <sup>2</sup>	Lubrizol SA-102
<b>Viscosity, cP, 25°C</b> Brookfield RVT, 20 rpm, neutralized to pH 7.3 - 7.8  0.5 wt% mucilage, spindle #6	20,700 - 41,300	1:1	Lubrizol 430-I
<b>Loss on Drying, %</b>	2.0 max	1:10	Lubrizol SA-004
<b>Specific Metals, ppm</b> Iron Arsenic Chromium, Cadmium, Mercury	15 max 1 max 5 max total	1:6 months	Lubrizol SA-012
<b>Residual Solvent<sup>3</sup></b> Ethyl acetate, % Benzene, ppm <sup>4</sup>	1.0 max <QL <sup>4</sup>	1:1 1:20	Lubrizol SA-009 Lubrizol SA-064
<b>Residual Monomer</b> Free Acrylic Acid, ppm	1,000 max	1:1	Lubrizol SA-005

<sup>1</sup> Where lot test frequency is less than 1:1, statistical quality control determines the parameter to be within specification limits. Actual values are not reported on the COA, but compliance within established limits is assured.

<sup>2</sup> Infrared reference spectra available upon request.

<sup>3</sup> No other residual solvents as listed in the ICH Q3C Guideline on Residual Solvents are used or are an expected by-product in the manufacturing process of this product. Benzene is tested due to it being a potential impurity.

<sup>4</sup> A result of "<QL" for benzene indicates that the batch was assayed or certified to yield an analysis below the 0.250 ppm quantitation limit (QL) of the Lubrizol test method for this substance.

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