

Abstract Submitted
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Sizing melamine-formaldehyde microspheres using an electron microscope M. GAREE, T.E. SHERIDAN, Ohio Northern University — Melamine-formaldehyde (MF) microspheres are widely used in complex plasma experiments because they are nearly monodisperse and are available in a wide variety of diameters. The manufacturer of these particles characterizes their mean diameter and standard deviation using a Coulter multisizer. However, measurements in complex plasma experiments, particularly of gas drag forces, indicate that the particles are smaller than their stated diameter. We have measured particle sizes using a scanning electron microscope and will compare these to the nominal diameter of $9.62 \pm 0.09 \mu\text{m}$.

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