

### S-394 N1

### Slip / Abrasion Resistance

#### Product Description

S-394 N1 is a polyethylene wax powder with narrow melt point temperature range and reduced solubility for use in a wide range of inks and coatings. It has a fairly high melt point, with a softening point only a few degrees lower.

#### Applications / Benefits

S-394 N1 is easily incorporated with mild agitation (or high speed mixing equipment). S-394 N1 is compatible with PTFE at levels of 0.5 - 1% (SST-2 or SST-3).

Inks: Liquid and paste inks. S-394 N1 provides excellent rub resistance, excellent imprintability and freedom from overprint varnish "crawling." It is ideal for ink applications requiring only a light canning pass.

Coatings: Can, coil, powder, wood, industrial and UV coatings. S-394 N1 enhances mar resistance, recoatability, hardness and anti-blocking characteristics.

#### Recommended Level

Inks: 1.0 to 2.0% of total formula weight for liquid inks. 2.0 to 3.0% for paste inks

Coatings: 2.0 to 3.0%

Note: Higher concentrations of S-394 N1 may cause gloss reduction.

#### Typical Properties

Method	Typical Values	Units
<b>Appearance:</b>	Visual	<b>Off-white powder</b>
<b>Specific Gravity:</b>	ASTM-D 2320	<b>0.95</b> g/cm <sup>3</sup>
<b>Particle Size Mean Value:</b>	QSOP*-5 Laser Diffraction	<b>5 - 7</b> μm
<b>99% of Particle under:</b>	QSOP*-5 Laser Diffraction	<b>12</b> μm
<b>NPIRI Grind:</b>	ASTM D-1316	<b>2.5 max</b> NPIRI Grind
<b>Hegman Grind:</b>	ASTM D-1210	<b>6.5 - 7.0</b> Hegman Grind
<b>DSC Melting Point:</b>	ASTM D-3417 / D-4591	<b>235 / 113</b> °F/°C

#### Regulatory Status

The Components of this product are listed on the TSCA (USA), DSL (Canada), AICS (Australia), Japanese, Korean, Chinese Chemical Inventories.

EINECS (Europe): All Components of this product (or its monomers) are listed in the European Chemical Inventory.

FDA Status: This product meets the requirements of 21 CFR 175.105, 175.300, 175.320, 176.170, & 176.180

\* QSOP represents Shamrock's Quality Standard Operating Procedure



## Technical Data

### Shipping and Handling Safety

Call Shamrock Customer Service at (732) 355-4500.

Please read Material Safety Data Sheet (MSDS) before using.

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The information contained in the technical data sheet is, to the best of our knowledge, true and accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe any patent.

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Page 2 of 2