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## SPHERIGLASS® SOLID GLASS SPHERES SPACER BEAD<sup>1</sup> APPLICATION DATA SHEET

Potters Industries LLC offers specialized glass beads specifically designed for controlling bond line thickness in adhesive bonding. These beads are manufactured and certified to meet the specification requirements of Raytheon HMS20-1776 and Boeing SCGMS-53004, STM0955.

Customer specifications, drawings, part numbers or references to terms and conditions, quality clauses or any specifications other than Potters Industries standard terms and conditions are not allowed.

### Typical Properties:

<b>Composition:</b>	Soda-Lime Glass	<b>Appearance:</b>	Colorless Spheres
<b>Specific Gravity/Density:</b>	2.3 – 2.7	<b>Refractive Index:</b>	1.50 – 1.55
<b>Magnetic Iron:</b>	≤ .1%	<b>Shelf Life:</b>	Not Tested

<i>Size Designation</i>	<i>Nominal Maximum Diameter (Inch)</i>	<i>Product Within Diameter Range (Inch)</i>	<b>US Sieve (Microns) 100% Passes</b>	<b>US Sieve (Microns) 90-100% On</b>
Type I	.0234	.0197 - .0234	US 30 (600 um)	US 35 (500 um)
Type II	.0165	.0139 - .0165	US 40 (425 um)	US 45 (355 um)
Type III	.0117	.0098 - .0117	US 50 (300 um)	US 60 (250 um)
Type IV	.0098	.0083 - .0098	US 60 (250 um)	US 70 (212 um)
Type V	.0070	.0059 - .0070	US 80 (180 um)	US 100 (150 um)
Type VI	.0049	.0041 - .0049	US 120 (125 um)	US 140 (106 um)
Type VII	.0041	.0035 - .0041	US 140 (106 um)	US 170 (90 um)
Type VIII	.0035	.0029 - .0035	US 170 (90 um)	US 200 (75 um)
Type IX	.0029	.0025 - .0029	US 200 (75 um)	US 230 (63 um)
Type X	.0025	.0021 - .0025	US 230 (63 um)	US 270 (53 um)
Type XI	.0021	.0017 - .0021	US 270 (53 um)	US 325 (45 um)
Type XII	.0017	.0015 - .0017	US 325 (45 um)	US 400 (38 um)
Type XIII	.0015	<.0015	US 400 (38 um)	Not Applicable

As determined by ASTM D-1214 Sieve Analysis of Glass Spheres.

**ROH Compliance:** Based on data, these products do not contain hazardous substances restricted under RoHS in amounts greater than or equal to the maximum specified concentration values established by RoHS.

<sup>1</sup>By submitting your order, you expressly agree to and consent to be bound by Potters Industries, LLC terms and conditions of sale in effect on the date of your order, and you also agree that Potters' obligations relating to the quality of the ordered goods is expressly limited to adherence to Potters' standard specifications for such goods.

The technical information and suggestions for use and applications presented herein represent the best information available to us and are believed to be reliable. They should not, however, be construed as controlling suggestions and are not be relied upon for any purpose. Potters Industries LLC makes no warranties, either expressed or implied, with respect to our materials, including warranties of merchantability or fitness for any particular purpose. We urge users of our materials to conduct confirmatory tests to determine final suitability for their specific end uses.

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