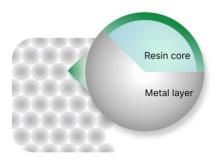
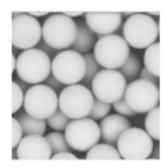


## Spherica® Ag series

Monosized silver-coated polymer particles



Monosized silver-coated polymer particles



## **Product features**

- Cost-efficient up to 90% silver reduction
- Tailor adhesive laydown and joint height/stand-off
- Superior reliability
- Truly spherical particles with highly uniform size distribution

## **Products**

	Ag-3-01	Ag-4-02	Ag-5-01	Ag-10-03	Ag-20-02	Ag-30-01
Particle core diameter	3.0 ± 0.5	4.0 ± 0.5	5.0 ± 0.5	10.0 ± 0.8	20.0 ± 1.0	30.0 ± 3.0
(μm):						
Polymer core material:	Styrene	Styrene	Styrene	Styrene	Styrene	Styrene
CV (%):	< 5	< 5	< 5	< 5	< 5	< 5
T <sub>g</sub> of polymer core:	None <sup>1</sup>	None <sup>1</sup>				
Decomposition temp.	> 340	> 340	> 340	> 340	> 340	> 340
polymer core (°C):						
Silver thickness (µm):	0.13 -	0.11 -	0.13 -	0.13 -	0.15 -	0.18 -
	0.18	0.15	0.16	0.15	0.16	0.22
Silver content (wt%):	77	67	64	46	33	30
Material density (g/cc):	3.4	2.7	2.5	1.8	1.5	1.4
Volume resistivity	2 x 10 <sup>-4</sup>	2 x 10 <sup>-4</sup>	4 x 10 <sup>-4</sup>	6 x 10 <sup>-4</sup>	1.6 x 10 <sup>-3</sup>	1.6 x10 <sup>-3</sup>
(Ω cm) <sup>2</sup> :						
Recommended filler	67 – 76	63 – 72	60 – 71	53 – 64	49 – 60	47 – 59
loading ICA (wt%):						
Minimum curing	80	80	80	80	80	80
temperature (°C):						

 $<sup>^{\</sup>rm 1}$  No  $T_{\rm g}$  visible in DSC

<sup>&</sup>lt;sup>2</sup> Minimum electrical resistivity obtained at max filler loading in ICA