



# AOS 340 LR

Product Code: 52054



## TECHNICAL DATA SHEET

### Product Description

**AOS 340 LR (lowest resistance)** is a non-silicone thermal grease with the current lowest thermal resistance on the market (for thin bond line applications\*). AOS 340 LR is also extremely durable and will not pump-out making it ideal for applications requiring extended life and no degradation.

\* For larger gaps/thicker films use a high thermal conductivity material such as 52050, 52060 or Sure-form gap filler.

### Product Features & Benefits

**AOS 340 LR** is non-silicone based, non-reactive, and non-abrasive with a soft, grease-like consistency with thixotropic behavior. It has excellent dielectric properties, lowest thermal resistance and superior durability (will not pump-out).

### Major Applications

**AOS 340 LR** is designed to be applied where thermal coupling is required and where a device may need to be removed from the heat sink at a later time. Major applications include CPU/GPU, power semiconductors and LED's. It is also the most efficient and cost effective low bond line TIM 2 for use in any thermal management application

### Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
<b>Consistency</b> (Penetration, worked, 60x)	340	ASTM D-217
<b>Specific Gravity</b> , @ 25°C	2.7	ASTM D-70
<b>Bleed</b> , @ 150°C, 24 Hrs., %/Wt	0.0	FTM-321 MODIFIED
<b>Evaporation</b> , @ 150°C, 24 Hrs., %/Wt.	1.0	FTM-321 MODIFIED
<b>Thermal Conductivity</b> , @ 36°C W/m-K	1.3	ASTM D-5470-06
<b>Thermal Resistance</b> @ 50°C °C/W	0.0310	Oracle TTV 270-7806-01
<b>Anticipated Minimum Bond line (mils)</b> Based on filler dimensions	0.3 mils	
<b>Electrical Properties</b>		
Dielectric strength, 0.05" gap, V/mil	265	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	5.02	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0022	ASTM D-150
Volume Resistivity, ohm-cm	2.0 X 10 <sup>15</sup>	ASTM D-257
<b>Operating Temperature Range</b>	-40°C to 180°C	
<b>Flow Rate grams/min.</b>	10	AOS Method # 1
<b>Appearance</b>	Smooth White Paste	

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