

## UCAR Carbon UCAR® SLX Extruded Graphite

Category : Carbon , Graphite

**Material Notes:**

Densified prior to graphitization, Grade SLX is an extruded graphite with increased densities and strength over SL. Typical Applications: CZ silicon crystal growth Quartz processing Purified electronic fixturing (after purification process) Polysilicon seed chucks Tabular property data is typical. Information provided by UCAR Carbon Company, a GrafTech International Ltd. company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_UCAR-Carbon-UCAR-SLX-Extruded-Graphite.php](http://www.lookpolymers.com/polymer_UCAR-Carbon-UCAR-SLX-Extruded-Graphite.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	
Particle Size	<= 750 µm	<= 750 µm	
Ash	0.10 %	0.10 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	24.1 MPa	3500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.40 µm/m-°C	1.89 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	170 W/m-K	1180 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000700 ohm-cm	0.000700 ohm-cm	

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