

Poco Graphite TRA Semiconductor Grade Graphite

Category : Carbon , Graphite

Material Notes:

Although it is impossible to identify differences between various grades of graphite by looking at them, each grade has a special set of characteristics and physical properties that determine their performance under specific conditions. The manufacturing process for each grade is tightly controlled to produce materials that have a uniform microstructure and the right balance of strength, grain size and hardness to offer optimum performance for their intended applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Poco-Graphite-TRA-Semiconductor-Grade-Graphite.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------|---------------------------|----------|
| Apparent Bulk Density | 1.72 g/cc | 0.0621 lb/in ³ | |
| Particle Size | 5.0 μm | 5.0 μm | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|-----------|---------------------------------------|
| Hardness, Shore D | 72 | 72 | |
| Tensile Strength, Yield | 53.0 MPa | 7690 psi | Estimated at 70% of flexural strength |
| Flexural Strength | 75.0 MPa | 10900 psi | |
| Compressive Strength | 118 MPa | 17100 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------|--------------|-----------------------------------|----------|
| CTE, linear | 7.90 μm/m-°C | 4.39 μin/in-°F | |
| Thermal Conductivity | 85.0 W/m-K | 590 BTU-in/hr-ft ² -°F | |

| Electrical Properties | Metric | English | Comments |
|------------------------|----------------|----------------|----------|
| Electrical Resistivity | 0.00156 ohm-cm | 0.00156 ohm-cm | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|---|
| Oxidation Threshold | 450°C | Temperature that results in 1% weight loss in 24 hours. Oxidation threshold increases by approximately 100°C if graphite is purified. |

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