

SGL Carbon Group EK 3235 Carbon Graphite

Category : Carbon , Graphite

Material Notes:

Good mechanical strength, good sliding properties, high temperature resistance, high thermal shock resistance, low wettability, high corrosion resistance, high thermal conductivity, high purity, and good electrical conductivity. Typical Applications: High Volume Seals
Information provided by SGL Carbon Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_SGL-Carbon-Group-EK-3235-Carbon-Graphite.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 2.60 g/cc | 0.0939 lb/in ³ | |
| Open Porosity | <= 2.5 % | <= 2.5 % | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|-------------------|
| Hardness, Rockwell R | 105 | 105 | Size/Load - 5/100 |
| Hardness, Shore C | 90 | 90 | |
| Modulus of Elasticity | 30.3 GPa | 4400 ksi | |
| Flexural Strength | 58.6 MPa | 8500 psi | |
| Compressive Strength | 210 MPa | 30500 psi | |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|-----------------------|------------------------------------|---------------|
| CTE, linear | 5.04 Åµm/m-Å°C | 2.80 Åµin/in-Å°F | |
| | @Temperature 20.0 Å°C | @Temperature 68.0 Å°F | |
| Thermal Conductivity | 20.8 W/m-K | 144 BTU-in/hr-ft ² -Å°F | |
| Maximum Service Temperature, Air | 399 Å°C | 750 Å°F | In oxygen |
| Maximum Service Temperature, Inert | 538 Å°C | 1000 Å°F | Reducing Atm. |

| Descriptive Properties | Value | Comments |
|------------------------|----------|----------|
| Impregnation | Antimony | |

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