

## SGL Carbon Group Ridurid® EK 60 High Performance Graphite Filled Plastic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

### 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: Vanes for high loaded compressors. Information provided by SGL Carbon Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SGL-Carbon-Group-Ridurid-EK-60-High-Performance-Graphite-Filled-Plastic.php](http://www.lookpolymers.com/polymer_SGL-Carbon-Group-Ridurid-EK-60-High-Performance-Graphite-Filled-Plastic.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 1.74 g/cc | 0.0629 lb/in <sup>3</sup> |          |
| Open Porosity       | 0.00 %    | 0.00 %                    |          |

| Mechanical Properties | Metric   | English   | Comments                |
|-----------------------|----------|-----------|-------------------------|
| Hardness, Rockwell R  | 105      | 105       | Ball Size/Load - 10/100 |
| Flexural Strength     | 75.8 MPa | 11000 psi |                         |

| Thermal Properties                 | Metric                                                                        | English                                                                         | Comments      |
|------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------|
| CTE, linear                        | 11.0 $\mu\text{m/m-}^{\circ}\text{C}$<br>@Temperature 20.0 $^{\circ}\text{C}$ | 6.10 $\mu\text{in/in-}^{\circ}\text{F}$<br>@Temperature 68.0 $^{\circ}\text{F}$ |               |
| Maximum Service Temperature, Air   | 177 $^{\circ}\text{C}$                                                        | 350 $^{\circ}\text{F}$                                                          | In oxygen     |
| Maximum Service Temperature, Inert | 204 $^{\circ}\text{C}$                                                        | 399 $^{\circ}\text{F}$                                                          | Reducing Atm. |

## Contact Songhan Plastic Technology Co.,Ltd.

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