

## SGL Carbon Group Ridurid® V 1017 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: Seals, compressors, pumps, bearings. Information provided by SGL Carbon Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SGL-Carbon-Group-Ridurid-V-1017-High-Performance-Graphite-Filled-Plastic.php](http://www.lookpolymers.com/polymer_SGL-Carbon-Group-Ridurid-V-1017-High-Performance-Graphite-Filled-Plastic.php)

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in <sup>3</sup>	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	Ball Size/Load - 5/100
Modulus of Elasticity	15.2 GPa	2200 ksi	
Flexural Strength	79.3 MPa	11500 psi	
Compressive Strength	169 MPa	24500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.30 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	3.46 W/m-K	24.0 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	177 $\text{Å}^\circ\text{C}$	350 $\text{Å}^\circ\text{F}$	In oxygen
Maximum Service Temperature, Inert	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	Reducing Atm.

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