

SGL Carbon Group Ridurid® V 1640 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-1640-High-Performance-Graphite-Filled-Plastic.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	
Open Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	Ball Size/Load - 5/100
Modulus of Elasticity	13.8 GPa	2000 ksi	
Flexural Strength	93.1 MPa	13500 psi	
Compressive Strength	210 MPa	30500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	8.90 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	3.46 W/m-K	24.0 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
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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