

A black compound which can be used in a wide range of sealing and bearing applications. Rulon DC1042 is ideal for applications in which the bearing, seal is in contact with harsh chemicals or in applications where electrical conductivity is needed.

Rulon DC 1042 is a very popular material for valve seats and stem bushings in oil and gas valves and in compressor components.

## Features

- Color: Black
- Low wear
- Excellent electrical conductivity
- Resistant to most harsh chemicals
- Ideal for valve seat and stem bushings



## Technical Specifications

Property	Value	Unit			
Temperature - Typical Range	-400/+550 (-240/+288)	°F (°C)			
Maximum PV (P+V)	10,000 (0.35)	psi x ft/min (MPa x m/sec)			
Maximum P	1,000 (6.9)	psi (MPa)			
Maximum V (no pressure)	400 (2)	ft/min (m/s)			
Hardness Shore D ASTM D2240	65				
Minimum Mating Surface Hardness					
Brinnell Scale	327				
Rockwell Scale	Rc35				
<b>Engineering Information</b>					
Chemical Resistance	Data available				
Thermal Conductivity - Cenco-Fitch	4.5 (0.65)	BTU/hr/sq. ft./°F/in. (W/m•K)			
Coefficient of Thermal Expansion					
		x 10 <sup>-5</sup> in/in/°F			
ASTM D696					
	Cross Direction	Molded Direction	Cross Direction	Molded Direction	
+78 to +200 °F	(+ 26 to + 93 °C)	4.0	4.6	7.2	8.3
+78 to +300 °F	(+ 26 to + 149 °C)	4.3	5.2	7.7	9.3
+78 to +400 °F	(+ 26 to + 204 °C)	4.6	6.0	8.3	10.8
+78 to +500 °F	(+ 26 to + 260 °C)	5.4	7.5	9.7	13.5
<b>Physical Data</b>					
Elongation ASTM D4894	40	%			
<small>Based on measurement of hand molded material in the Cross (diameter) Direction; Extruded rod or tube will normally run as low as 20%.</small>					
Tensile Strength ASTM D638	1,500 (10.3)	psi (MPa)			
Specific Gravity ASTM D792	1.96	gram/cu. cm			
Deformation Under Load	2.0	%			
<small>1500 psi, 24 hrs, RT (molded direction)</small>					

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



## CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



## Ultracomp<sup>®</sup>

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



## TriSteel<sup>™</sup>

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



## Rulon<sup>®</sup>

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



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