

### Technical Data

Rulon LR is a bearing material with a low coefficient of friction and excellent abrasion resistance. It finds a great number of applications as bearing since lubrication is not required. Rulon LR has a 1000 fold increase in wear resistance over PTFE , lower deformation under load, greater stiffness and higher compressive strength

PROPERTY	UNIT	ASTM METHOD	VALUE
<b>Physical</b>			
Specific Gravity		D 792	2.27
Water Absorption	%	D570	0
<b>Mechanical</b>			
Tensile Strength	N/mm <sup>2</sup>	D1457	10.34
Elongation	%	D1457	150
Deformation 13.79N/mm <sup>2</sup> , 25°C, 24h	%	D621	3
Izod Impact	J/cm	D256	3.2
Hardness	Shore D	D2240	60 - 75
<b>Thermal</b>			
Thermal Conductivity	W/(m.K)	Cenco-Fitch	0.33
Operating temperature range	°C		-240 to 287
Thermal Expansion, -87°C – 25°C -31°C – 25°C 0°C – 25°C 25°C – 65°C 25°C – 121°C 25°C – 176°C 25°C – 232°C 25°C – 287°C	1/°C	D696-44	1.17 x 10 <sup>-4</sup> 1.66 x 10 <sup>-4</sup> 2.20 x 10 <sup>-4</sup> 0.91 x 10 <sup>-4</sup> 0.95 x 10 <sup>-4</sup> 1.06 x 10 <sup>-4</sup> 1.22 x 10 <sup>-4</sup> 1.57 x 10 <sup>-4</sup>
<b>Electrical</b>			
Dissipation factor 10 <sup>3</sup> - 10 <sup>10</sup> Hz		D150-59T	0.001 – 0.004
Dielectric Constant 60- 10 <sup>10</sup> Hz		D150-59T	2.5
Dielectric Strength 2mm thickness 2.5mm thickness	V/mm	D149	15748 - 19625 35433 - 43307
Arc Resistivity	sec	D495-56T	180 – 240
Volume Resistivity	ohm x cm	D257-57T	1 x 10 <sup>15</sup>

revision : -

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