

**Product Texts**

LNP LUBRICOMP RX05050 compound is based on Nylon 6/6 resin containing 10% PTFE, 10% aramid fiber and 10% carbon fiber. Added features of this grade include: Electrically Conductive, Wear Resistant.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>8700</b>	MPa	ISO 527
Stress at break	<b>129</b>	MPa	ISO 527
Strain at break	<b>3.3</b>	%	ISO 527
Flexural modulus	<b>7200</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>35</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>5</b>	kJ/m <sup>2</sup>	ISO 180/1A

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>238</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>258</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>24</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>88</b>	E-6/K	ISO 11359-1/-2

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	<b>100000</b>	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1270</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>40</b>	h	-
Processing humidity	<b>≤0.25</b>	%	-
Melt temperature	<b>275 - 290</b>	°C	-
Mold temperature	<b>80 - 95</b>	°C	-
Zone 1	<b>265 - 275</b>	°C	-
Zone 2	<b>280 - 295</b>	°C	-
Zone 3	<b>295 - 305</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity