

**Product Texts**

LNP LUBRICOMP QFL17RS compound is based on Nylon 6/10 resin containing 35% glass fiber, 5% PTFE. Added features of this grade include: Easy Release, Heat Stabilized, Wear Resistant.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.1</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.7</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.1</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.7</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>10600</b>	MPa	ISO 527
Stress at break	<b>183</b>	MPa	ISO 527
Strain at break	<b>3.4</b>	%	ISO 527
Flexural modulus	<b>9800</b>	MPa	ISO 178
Flexural strength	<b>273</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>88</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>16</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>11920</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>192</b>	MPa	ASTM D 638
Elongation at Break	<b>3.5</b>	%	ASTM D 638
Flexural Modulus	<b>9030</b>	MPa	ASTM D 790
Flexural Strength	<b>282</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>176</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>1370</b>	J/m	ASTM D 256

<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>208</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>222</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>214</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>0.3</b>	%	Sim. to ISO 62
Density	<b>1420</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.18</b>	%	ASTM D 570
Density	<b>1420</b>	kg/m <sup>3</sup>	ASTM D 792

<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>4</b>	h	-
Processing humidity	<b>≤0.2</b>	%	-
Melt temperature	<b>270 - 275</b>	°C	-
Mold temperature	<b>80 - 95</b>	°C	-
Zone 1	<b>250 - 260</b>	°C	-
Zone 2	<b>260 - 270</b>	°C	-
Zone 3	<b>270 - 280</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

**Applications**

Automotive