

**LNP™ LUBRICOMP™ Compound DL002ER**

(PC+PTFE)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP LUBRICOMP DL002ER compound is based on Polycarbonate (PC) resin containing 10% PTFE. Added features of this grade include: Wear Resistant, Easy Molding, Mold Release.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.7</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.8</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.7</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.8</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>2200</b>	MPa	ISO 527
Yield stress	<b>56</b>	MPa	ISO 527
Yield strain	<b>5.7</b>	%	ISO 527
Stress at break	<b>46</b>	MPa	ISO 527
Strain at break	<b>50</b>	%	ISO 527
Flexural modulus	<b>2200</b>	MPa	ISO 178
Flexural strength	<b>73</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>174</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>11</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>2060</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>55</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>48</b>	MPa	ASTM D 638
Elongation at Yield	<b>5.9</b>	%	ASTM D 638
Elongation at Break	<b>66.3</b>	%	ASTM D 638
Flexural Modulus	<b>2060</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>133</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>2490</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>125</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>135</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>135</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>123</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1240</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.1</b>	%	ASTM D 570
Density	<b>1240</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>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>300 - 315</b>	°C	-
Mold temperature	<b>80 - 110</b>	°C	-
Zone 1	<b>295 - 305</b>	°C	-
Zone 2	<b>305 - 315</b>	°C	-
Zone 3	<b>310 - 320</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