

## SABIC Innovative Plastics LNP Lubricomp DCL329XZ PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP LUBRICOMP\* DCL329XZ is a compound based on Polycarbonate resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Lubricomp-DCL329XZ-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DCL329XZ-PC-Asia-Pacific.php)

| Physical Properties                | Metric                     | English                    | Comments              |
|------------------------------------|----------------------------|----------------------------|-----------------------|
| Density                            | 1.36 g/cc                  | 0.0491 lb/in <sup>3</sup>  | ISO 1183              |
|                                    | 1.365 g/cc                 | 0.04931 lb/in <sup>3</sup> | ASTM D 792            |
| Moisture Absorption at Equilibrium | 0.14 %                     | 0.14 %                     | 23°C / 50% RH; ISO 62 |
|                                    | 0.090 %<br>@Time 86400 sec | 0.090 %<br>@Time 24.0 hour | 50% RH; ASTM D 570    |
| Linear Mold Shrinkage, Flow        | 0.0010 - 0.0020 cm/cm      | 0.0010 - 0.0020 in/in      | ASTM D 955            |
|                                    | @Time 86400 sec            | @Time 24.0 hour            |                       |
|                                    | 0.0014 - 0.0019 cm/cm      | 0.0014 - 0.0019 in/in      | ISO 294               |
|                                    | @Time 86400 sec            | @Time 24.0 hour            |                       |
| Linear Mold Shrinkage, Transverse  | 0.0040 - 0.0050 cm/cm      | 0.0040 - 0.0050 in/in      | ASTM D 955            |
|                                    | @Time 86400 sec            | @Time 24.0 hour            |                       |
|                                    | 0.0045 - 0.0052 cm/cm      | 0.0045 - 0.0052 in/in      | ISO 294               |
|                                    | @Time 86400 sec            | @Time 24.0 hour            |                       |

| Mechanical Properties     | Metric   | English   | Comments              |
|---------------------------|----------|-----------|-----------------------|
| Tensile Strength at Break | 91.0 MPa | 13200 psi | ASTM D 638            |
|                           | 94.0 MPa | 13600 psi | ISO 527               |
| Elongation at Break       | 1.9 %    | 1.9 %     | ISO 527               |
|                           | 2.0 %    | 2.0 %     | ASTM D 638            |
| Tensile Modulus           | 7.17 GPa | 1040 ksi  | 50 mm/min; ASTM D 638 |
|                           | 7.30 GPa | 1060 ksi  | 1 mm/min; ISO 527     |
| Flexural Strength         | 138 MPa  | 20000 psi | ASTM D 790            |
|                           | 139 MPa  | 20200 psi | ISO 178               |

| Mechanical Properties        | Metric                 | English                    | Comments                                       |
|------------------------------|------------------------|----------------------------|------------------------------------------------|
| Flexural Modulus             | 0.48 GPa               | 698 ksi                    | ASTM D 790                                     |
|                              | 7.30 GPa               | 1060 ksi                   | ISO 178                                        |
| Izod Impact, Notched         | 0.690 J/cm             | 1.29 ft-lb/in              | ASTM D 256                                     |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                |
| Izod Impact, Unnotched       | 3.15 J/cm              | 5.90 ft-lb/in              | ASTM D 4812                                    |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                |
| Izod Impact, Notched (ISO)   | 7.00 kJ/m <sup>2</sup> | 3.33 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A                            |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                |
| Izod Impact, Unnotched (ISO) | 22.0 kJ/m <sup>2</sup> | 10.5 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U                            |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                |
| Impact Test                  | 2.00 J                 | 1.48 ft-lb                 | Multiaxial Impact; ISO 6603                    |
|                              | 15.0 J                 | 11.1 ft-lb                 | Instrumented Impact Energy @ peak; ASTM D 3763 |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                |

| Thermal Properties                          | Metric                       | English                     | Comments                         |
|---------------------------------------------|------------------------------|-----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow               | 24.1 µm/m-°C                 | 13.4 µin/in-°F              | ISO 11359-2                      |
|                                             | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F |                                  |
|                                             | 24.1 µm/m-°C                 | 13.4 µin/in-°F              | ASTM E 831                       |
|                                             | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F |                                  |
| CTE, linear, Transverse to Flow             | 41.9 µm/m-°C                 | 23.3 µin/in-°F              | ISO 11359-2                      |
|                                             | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F |                                  |
|                                             | 41.9 µm/m-°C                 | 23.3 µin/in-°F              | ASTM E 831                       |
|                                             | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F |                                  |
| Deflection Temperature at 0.46 MPa (66 psi) | 141 °C                       | 286 °F                      | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
|                                             | 143 °C                       | 289 °F                      | unannealed; ASTM D 648           |
|                                             | @Thickness 3.20 mm           | @Thickness 0.126 in         |                                  |
| Deflection Temperature at 1.8 MPa (264 psi) | 138 °C                       | 280 °F                      | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                             | 139 °C                       | 282 °F                      |                                  |

| Thermal Properties    | Metric<br>@ Thickness 3.20 mm | English<br>@ Thickness 0.126 in | unannealed; ASTM D 648<br>Comments |
|-----------------------|-------------------------------|---------------------------------|------------------------------------|
| Electrical Properties | Metric                        | English                         | Comments                           |
| Surface Resistance    | 100 - 1.00e+6 ohm             | 100 - 1.00e+6 ohm               | ASTM D 257                         |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China