

## SABIC Innovative Plastics LNP LUBRICOMP OCP34E PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP LUBRICOMP\* OCP34E is a compound based on PPS - Linear resin containing 20% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Easy Molding, Electrically Conductive, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP34E-PPS-Linear.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP34E-PPS-Linear.php)

| Physical Properties               | Metric          | English                   | Comments                           |
|-----------------------------------|-----------------|---------------------------|------------------------------------|
| Density                           | 1.46 g/cc       | 0.0527 lb/in <sup>3</sup> | ASTM D792                          |
|                                   | 1.46 g/cc       | 0.0527 lb/in <sup>3</sup> | ISO 1183                           |
| Moisture Absorption               | 0.0200 %        | 0.0200 %                  | 50% RH, 24 hrs; ASTM D570          |
|                                   | 0.0200 %        | 0.0200 %                  | 23 <sup>o</sup> C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow       | 0.00080 cm/cm   | 0.00080 in/in             | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
|                                   | 0.0010 cm/cm    | 0.0010 in/in              | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
| Linear Mold Shrinkage, Transverse | 0.0039 cm/cm    | 0.0039 in/in              | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
|                                   | 0.0040 cm/cm    | 0.0040 in/in              | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |

| Mechanical Properties     | Metric    | English   | Comments             |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 159 MPa   | 23100 psi | ISO 527              |
|                           | 164 MPa   | 23800 psi | ASTM D638            |
| Elongation at Break       | 1.3 %     | 1.3 %     | ISO 527              |
|                           | 1.6 %     | 1.6 %     | ASTM D638            |
| Tensile Modulus           | 16.59 GPa | 2406 ksi  | 1 mm/min; ISO 527    |
|                           | 18.96 GPa | 2750 ksi  | 50 mm/min; ASTM D638 |
| Flexural Strength         | 231 MPa   | 33500 psi | ASTM D790            |
|                           | 236 MPa   | 34200 psi | ISO 178              |

| Flexural Modulus<br>Mechanical Properties | 14.95 GPa<br>Metric    | 2170 ksi<br>English        | ASTM D790<br>Comments                            |
|-------------------------------------------|------------------------|----------------------------|--------------------------------------------------|
|                                           | 15.32 GPa              | 2222 ksi                   | ISO 178                                          |
| Izod Impact, Notched                      | 0.480 J/cm             | 0.899 ft-lb/in             | ASTM D256                                        |
| Izod Impact, Unnotched                    | 3.89 J/cm              | 7.29 ft-lb/in              | ASTM D4812                                       |
| Izod Impact, Notched (ISO)                | 8.00 kJ/m <sup>2</sup> | 3.81 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A                              |
| Izod Impact, Unnotched (ISO)              | 28.0 kJ/m <sup>2</sup> | 13.3 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U                              |
| Dart Drop, Total Energy                   | 4.00 J                 | 2.95 ft-lb                 | Instrumented Impact Energy @ peak;<br>ASTM D3763 |
| Impact Test                               | 2.00 J                 | 1.48 ft-lb                 | Multiaxial Impact; ISO 6603                      |

| Thermal Properties                             | Metric             | English             | Comments                         |
|------------------------------------------------|--------------------|---------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 260 Â°C            | 500 Â°F             | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                                | 265 Â°C            | 509 Â°F             | unannealed; ASTM D648            |
|                                                | @Thickness 3.20 mm | @Thickness 0.126 in |                                  |

## Contact Songhan Plastic Technology Co.,Ltd.

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