# LNP™ LUBRICOMP™ Compound OCL36A

OCL-4036 HI FLOW
REGION EUROPE

## DESCRIPTION

LNP LUBRICOMP OCL36A compound is based on Polyphenylene Sulfide (PPS) - branched resin containing 30% carbon fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Electrically Conductive, Wear resistant, Carbon fiber filled, High stiffness/Strength |
| **Fillers** | Carbon Fiber, PTFE |
| **Polymer Types** | Polyphenylene Sulfide, Branched (PPS, Branched) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Building and Construction | Building Component |
| Consumer | Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

## TYPICAL PROPERTY VALUES

Revision 20260902

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL [1] | | | |
| **Tensile Stress, break, 5 mm/min** | 153 | MPa | ISO 527 |
| **Tensile Strain, break, 5 mm/min** | 0.7 | % | ISO 527 |
| **Tensile Modulus, 1 mm/min** | 25000 | MPa | ISO 527 |
| **Flexural Stress, yield** | | | |
| 2 mm/min | 261 | MPa | ISO 178 |
| 2 mm/min, 80°C | 212 | MPa | ISO 178 |
| 2 mm/min, 120°C | 118 | MPa | ISO 178 |
| 2 mm/min, 150°C | 94 | MPa | ISO 178 |
| 2 mm/min, 200°C | 66 | MPa | ISO 178 |
| **Flexural Stress, break, 2 mm/min** | 217 | MPa | ISO 178 |
| **Flexural Strain, break, 2 mm/min** | 1.3 | % | ISO 178 |
| **Flexural Modulus** | | | |
| 2 mm/min | 21200 | MPa | ISO 178 |
| 2 mm/min, 80°C | 20600 | MPa | ISO 178 |
| 2 mm/min, 120°C | 10200 | MPa | ISO 178 |
| 2 mm/min, 150°C | 7900 | MPa | ISO 178 |
| 2 mm/min, 200°C | 6100 | MPa | ISO 178 |
| **Flexural Strain, break, 2 mm/min, 80°C** | 1.3 | % | ISO 178 |
| **Flexural Strain, break, 2 mm/min, 120°C** | 2.3 | % | ISO 178 |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Flexural Strain, break, 2 mm/min, 150°C | 2.4 | % | ISO 178 |
| Flexural Strain, break, 2 mm/min, 200°C | 2.4 | % | ISO 178 |
| IMPACT [1] | | | |
| Izod impact, notched | | | |
| 80*10*3 -40°C | 6 | kJ/m² | ISO 180/1A |
| 80*10*4 +23°C | 6 | kJ/m² | ISO 180/1A |
| Izod Impact, Unnotched | | | |
| 80*10*4 +23°C | 26 | kJ/m² | ISO 180/1U |
| 80*10*4 -40°C | 23 | kJ/m² | ISO 180/1U |
| THERMAL [1] | | | |
| Specific Heat | 1633 | J/kg-K | ASTM E1269 |
| CTE, 23°C to 60°C, flow | 3.E-06 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 60°C, xflow | 4.9E-05 | 1/°C | ISO 11359-2 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 278 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 255 | °C | ISO 75/Af |
| Thermal Conductivity | 0.36 | W/m-K | ASTM D5930 |
| PHYSICAL [1] | | | |
| Mold Shrinkage, flow, 24 hrs [2] | 0.19 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs [2] | 0.95 | % | ISO 294 |
| Wear Factor Washer | 19 | 10^-10 in^5-min/ft-lb-hr | ASTM D3702 Modified: Manual |
| Dynamic COF | 0.39 | - | ASTM D3702 Modified: Manual |
| Density | 1.52 | g/cm³ | ISO 1183 |
| Water Absorption, (23°C/24hrs) | 0.05 | % | ISO 62-1 |
| Moisture Absorption (23°C / 50% RH) | 0.03 | % | ISO 62 |
| Melt Volume Rate | | | |
| 315°C/5.0 kg | 4 – 6 | cm³/10 min | ISO 1133 |
| ELECTRICAL [1] | | | |
| Surface Resistivity | 1.E+01 – 1.E+03 | Ω | ASTM D257 |
| INJECTION MOLDING [3] | | | |
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | Hrs | |
| Melt Temperature | 315 – 340 | °C | |
| Front - Zone 3 Temperature | 330 – 345 | °C | |
| Middle - Zone 2 Temperature | 320 – 330 | °C | |
| Rear - Zone 1 Temperature | 305 – 315 | °C | |
| Mold Temperature | 140 – 165 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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