

LG Chemical LUCON PN9009 PPS+MF

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Injection Molding Grade, PPS+MF, High Thermal Conductivity, Chemical Resistance, High Heat Resistance
 Application: Electrical or Electronic Parts (Heat sink, LED etc.) Motor Housing
 CAS No. 25212-74-2 and 7782-42-5
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-PN9009-PPSMF.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-------------------|
| Specific Gravity | 1.95 g/cc | 1.95 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.010 | 0.010 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.010 cm/cm @Thickness 3.20 mm | 0.0040 - 0.010 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 40 g/10 min @Load 5.00 kg, Temperature 320 Â°C | 40 g/10 min @Load 11.0 lb, Temperature 608 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|--------------------|
| Tensile Strength, Yield | 49.0 MPa @Thickness 3.20 mm | 7110 psi @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Flexural Yield Strength | 88.3 MPa @Thickness 6.40 mm | 12800 psi @Thickness 0.252 in | 1mm/min; ASTM D790 |
| Flexural Modulus | 13.7 GPa @Thickness 6.40 mm | 1990 ksi @Thickness 0.252 in | 1mm/min; ASTM D790 |
| Izod Impact, Notched | 0.196 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C | 0.367 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|-------------------------------|--------------------------------|-----------|
| Thermal Conductivity | 2.50 W/m-K | 17.4 BTU-in/hr-ftÂ²- Â°F | ASTM C177 |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 Â°C @Thickness 6.40 mm | 500 Â°F @Thickness 0.252 in | ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity Electrical Properties | 1.00e+8 ohm-cm Metric | 1.00e+8 ohm-cm English | ASTM D257 Comments |
|---|--------------------------|---------------------------|-----------------------|
| Surface Resistance | 1.00e+8 ohm | 1.00e+8 ohm | IEC 60093 |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|--------------------------|
| Rear Barrel Temperature | 280 - 310 Â°C | 536 - 590 Â°F | Injection Molding |
| Middle Barrel Temperature | 310 - 320 Â°C | 590 - 608 Â°F | Injection Molding |
| Front Barrel Temperature | 320 - 325 Â°C | 608 - 617 Â°F | Injection Molding |
| Nozzle Temperature | 310 - 330 Â°C | 590 - 626 Â°F | Injection Molding |
| Melt Temperature | 330 Â°C | 626 Â°F | Resin, Injection Molding |
| Mold Temperature | 130 - 150 Â°C | 266 - 302 Â°F | Injection Molding |
| Drying Temperature | 120 - 140 Â°C | 248 - 284 Â°F | Injection Molding |
| Dry Time | 3.00 - 5.00 hour | 3.00 - 5.00 hour | Injection Molding |
| Back Pressure | 0.981 - 3.92 MPa | 142 - 569 psi | Injection Molding |
| Screw Speed | 40 - 80 rpm | 40 - 80 rpm | Injection Molding |

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