

SABIC Innovative Plastics LNP LUBRICOMP Noryl_SPN422L PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP* Lubricomp* Noryl_SPN422L compound is a wear resistant, fluorocarbon alloy, 235F (113C) HDT. UL94 HB rated. Check surface aesthetics prior to material specification.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NorylSPN422L-PPEPS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|--|------------------------------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0070 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | on Tensile Bar; SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|------------------------------------|
| Tensile Strength, Yield | 48.0 MPa | 6960 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 35 % | 35 % | Type I, 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 75.0 MPa | 10900 psi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Flexural Modulus | 2.27 GPa | 329 ksi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Izod Impact, Notched | 2.67 J/cm | 5.00 ft-lb/in | ASTM D256 |
| | 0.960 J/cm @Temperature -40.0 Â°C | 1.80 ft-lb/in @Temperature -40.0 Â°F | ASTM D256 |
| Gardner Impact | 13.0 J | 9.59 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 112 Â°C @Thickness 6.40 mm | 234 Â°F @Thickness 0.252 in | unannealed; ASTM D648 |
| UL RTI, Electrical | 50.0 Â°C | 122 Â°F | UL 746B |
| UL RTI, Mechanical with Impact | 50.0 Â°C | 122 Â°F | UL 746B |
| UL RTI, Mechanical without Impact | 50.0 Â°C | 122 Â°F | UL 746B |
| | HB | HB | |

| Flammability, UL 94 Thermal Properties | Metric @ Thickness 1.47 mm | English @ Thickness 0.0579 in | UL 94 Comments |
|---|-------------------------------|----------------------------------|---------------------|
| Electrical Properties | Metric | English | Comments |
| Arc Resistance | 60 - 120 sec | 60 - 120 sec | Tungsten; ASTM D495 |
| Comparative Tracking Index | 250 - 400 V | 250 - 400 V | UL 746A |
| Hot Wire Ignition, HWI | 30 - 60 sec | 30 - 60 sec | UL 746A |
| High Amp Arc Ignition, HAI | 60 - 120 arcs | 60 - 120 arcs | UL 746A |
| High Voltage Arc-Tracking Rate, HVTR | 80.0 - 150 mm/min | 3.15 - 5.91 in/min | UL 746A |

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