

LNPTM KONDUITTM COMPOUND 0X11314

REGION EUROPE

DESCRIPTION

LNP KONDUIT OX11314 compound is based on Polyphenylene Sulfide (PPS) resin containing mineral and glass fiber. Added features of this grade include: Thermally Conductive, Electrically Insulative and Non-Brominated, Non-Chlorinated Flame Retardant.

| GENERAL INFORMATION | |
|-----------------------|--|
| Features | Flame Retardant, Non CI/Br flame retardant, Thermally conductive/Electrically isolative, No PFAS intentionally added |
| Fillers | Glass Fiber, Mineral |
| Polymer Types | Polyphenylene Sulfide, Linear (PPS, Linear) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|----------------------------|---|
| Building and Construction | Building Component |
| Consumer | Home Appliances |
| Electrical and Electronics | Mobile Phone - Computer - Tablets, Lighting |
| Industrial | Electrical, Material Handling |

TYPICAL PROPERTY VALUES

Revision 20250718

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|-------|----------------|
| MECHANICAL (1) | | | |
| Tensile Stress, break, 5 mm/min | 50 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 0.5 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 15000 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 75 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 15500 | MPa | ISO 178 |
| IMPACT (1) | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 6 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 2 | kJ/m² | ISO 180/1A |
| THERMAL (1) | | | |
| CTE, -40°C to 40°C, flow | 2.E-05 | 1/°C | ASTM E831 |
| CTE, -40°C to 40°C, xflow | 3.E-05 | 1/°C | ASTM E831 |
| CTE, -30°C to 80°C, flow | 2.1E-05 | 1/°C | ISO 11359-2 |
| CTE, -30°C to 80°C, xflow | 3.2E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 80°C, flow | 2.2E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 80°C, xflow | 3.5E-05 | 1/°C | ISO 11359-2 |
| Ball Pressure Test, 125°C +/- 2°C | PASSES | - | IEC 60695-10-2 |
| Vicat Softening Temp, Rate B/120 | 254 | °C | ISO 306 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 261 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 211 | °C | ISO 75/Af |



| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|----------|--------------|
| PHYSICAL (1) | | | |
| Mold Shrinkage on Tensile Bar, flow ⁽²⁾ | 0.26 | % | SABIC method |
| Mold Shrinkage, flow, 24 hrs ⁽²⁾ | 0.39 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs ⁽²⁾ | 0.41 | % | ISO 294 |
| Density | 1.91 | g/cm³ | ISO 1183 |
| ELECTRICAL (1) | | | |
| Comparative Tracking Index (3) | 575 | V | IEC 60112 |
| Comparative Tracking Index (UL) {PLC} (3) | 0 | PLC Code | UL 746A |
| Surface Resistivity | 1.E+15 | Ω | ASTM D257 |
| FLAME CHARACTERISTICS (1) | | | |
| UL Recognized, 94V-0 Flame Class Rating (3) | ≥0.8 | mm | UL 94 |
| INJECTION MOLDING (4) | | | |
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | Hrs | |
| Melt Temperature | 320 – 350 | °C | |
| Front - Zone 3 Temperature | 315 – 345 | °C | |
| Middle - Zone 2 Temperature | 315 – 345 | °C | |
| Rear - Zone 1 Temperature | 315 – 345 | °C | |
| Mold Temperature | 110 – 150 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 60 – 100 | rpm | |
| Shot to Cylinder Size | 50 – 75 | % | |

- (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) Value shown here is based on internal measurement.
- (4) 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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