

SABIC Innovative Plastics LNP STAT-KON SD000 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

LNP* STAT-KON* SD000 is an unfilled Nylon 12 compound. Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-SD000-PA12.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------|----------------------------|------------------------------------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | ASTM D792 |
| Density | 1.124 g/cc | 0.04061 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.150 % | 0.150 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.210 % | 0.210 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | >= 0.020 cm/cm | >= 0.020 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.020 - 0.040 cm/cm | 0.020 - 0.040 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|------------------------------|
| Tensile Strength at Break | 40.0 MPa | 5800 psi | Type I, 5 mm/min; ASTM D638 |
| | 44.0 MPa | 6380 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 49.0 MPa | 7110 psi | 5 mm/min; ISO 527 |
| | 51.0 MPa | 7400 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 17.1 % | 17.1 % | 5 mm/min; ISO 527 |
| | 28.1 % | 28.1 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 11.3 % | 11.3 % | 5 mm/min; ISO 527 |
| | 13.4 % | 13.4 % | Type I, 5 mm/min; ASTM D638 |
| Tensile Modulus | 2.10 GPa | 305 ksi | 1 mm/min; ISO 527 |
| | 2.21 GPa | 321 ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | 67.0 MPa | 9720 psi | ISO 178 |
| Flexural Modulus | 1.98 GPa | 287 ksi | 2 mm/min; ISO 178 |
| | 2.05 GPa | 297 ksi | 1.3 mm/min, 50 mm span; ASTM |

| Mechanical Properties | Metric | English | 0790 Comments |
|------------------------------|------------------------------------|-------------------------------------|-----------------------------|
| Izod Impact, Notched | 0.350 J/cm | 0.656 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 19.1 J/cm | 35.8 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 4.00 kJ/m ² | 1.90 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 219 kJ/m ² | 104 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 2.00 J @Temperature 23.0 Â°C | 1.48 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 1.00 J | 0.738 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 99.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 55.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| CTE, linear, Transverse to Flow | 108 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 60.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 137 Â°C | 279 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 158 Â°C @Thickness 3.20 mm | 316 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 61.0 Â°C | 142 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 96.0 Â°C @Thickness 3.20 mm | 205 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|-----------|
| Surface Resistance | 1.0 - 4.0 ohm | 1.0 - 4.0 ohm | ASTM D257 |

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