

SABIC Innovative Plastics LNP Stat-kon IS000LX PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* Stat-Kon* IS000LX is a compound based on Nylon 6/12 containing Stainless Steel Fibers. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-IS000LX-PA612.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---------------------------|---------------------------|------------------------------------|
| Specific Gravity | 1.18 g/cc | 1.18 g/cc | ASTM D 792 |
| Density | 1.18 g/cc | 0.0426 lb/in ³ | ASTM D 792 |
| Moisture Absorption at Equilibrium | 0.29 % | 0.29 % | 23 ^o C / 50% RH; ISO 62 |
| | 0.20 % @Time 86400 sec | 0.20 % @Time 24.0 hour | 50% RH; ASTM D 570 |
| Linear Mold Shrinkage, Flow | 0.010 - 0.030 cm/cm | 0.010 - 0.030 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.020 - 0.040 cm/cm | 0.020 - 0.040 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|----------------|------------------------------------|
| Tensile Strength at Break | 66.0 MPa | 9570 psi | 5 mm/min; ISO 527 |
| | 67.0 MPa | 9720 psi | Type I, 5 mm/min; ASTM D 638 |
| Elongation at Break | 8.5 % | 8.5 % | 5 mm/min; ISO 527 |
| | 10.2 % | 10.2 % | Type I, 5 mm/min; ASTM D 638 |
| Elongation at Yield | 9.3 % | 9.3 % | Type I, 5 mm/min; ASTM D 638 |
| Tensile Modulus | 3.04 GPa | 441 ksi | 50 mm/min; ASTM D 638 |
| | 3.07 GPa | 445 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 82.0 MPa | 11900 psi | ISO 178 |
| Flexural Modulus | 2.43 GPa | 352 ksi | 2 mm/min; ISO 178 |
| | 2.67 GPa | 387 ksi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| | 0.270 J/cm | 0.506 ft-lb/in | |

| Izod Impact Notched Mechanical Properties | Metric @ Temperature 23.0 Â°C | English @ Temperature 73.4 Â°F | ASTM D 256 Comments |
|--|--|---|--|
| Izod Impact, Unnotched | 4.86 J/cm @ Temperature 23.0 Â°C | 9.10 ft-lb/in @ Temperature 73.4 Â°F | ASTM D 4812 |
| Izod Impact, Notched (ISO) | 3.00 kJ/mÂ² @ Temperature 23.0 Â°C | 1.43 ft-lb/inÂ² @ Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 35.0 kJ/mÂ² @ Temperature 23.0 Â°C | 16.7 ft-lb/inÂ² @ Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |
| Impact Test | 2.00 J @ Temperature 23.0 Â°C | 1.48 ft-lb @ Temperature 73.4 Â°F | Instrumented Impact Total Energy; ASTM D 3763 |

| Thermal Properties | Metric | English | Comments |
|--|--|---|----------------------------------|
| CTE, linear, Parallel to Flow | 102 Âµm/m-Â°C @ Temperature -30.0 - 30.0 Â°C | 56.7 Âµin/in-Â°F @ Temperature -22.0 - 86.0 Â°F | ASTM D 696 |
| CTE, linear, Transverse to Flow | 119 Âµm/m-Â°C @ Temperature -30.0 - 30.0 Â°C | 66.1 Âµin/in-Â°F @ Temperature -22.0 - 86.0 Â°F | ASTM D 696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 161 Â°C | 322 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 180 Â°C @ Thickness 3.20 mm | 356 Â°F @ Thickness 0.126 in | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 72.0 Â°C | 162 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 92.0 Â°C @ Thickness 3.20 mm | 198 Â°F @ Thickness 0.126 in | unannealed; ASTM D 648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------|-------------------|------------|
| Surface Resistance | 100 - 1.00e+6 ohm | 100 - 1.00e+6 ohm | ASTM D 257 |

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