

SABIC Innovative Plastics LNP STAT-KON DX07323 PC+ABS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX07323 is a compound based on polycarbonate resin containing conductive fillers. Added features of this compound includes: ESD safe and excellent low-temperature impact performance, intended for compliance to ATEX.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX07323-PCABS-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--|---|
| Density | 1.26 g/cc | 0.0455 lb/in ³ | ASTM D792 |
| | 1.26 g/cc | 0.0455 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm | 0.0050 in/in | SABIC Method |
| | 0.0040 - 0.0070 cm/cm @Time 86400 sec | 0.0040 - 0.0070 in/in @Time 24.0 hour | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0050 cm/cm | 0.0050 in/in | SABIC Method |
| | 0.0040 - 0.0070 cm/cm @Time 86400 sec | 0.0040 - 0.0070 in/in @Time 24.0 hour | ASTM D955 |
| Melt Flow | 55 g/10 min | 55 g/10 min | ASTM D1238 |
| | @Load 10.0 kg, Temperature 300 Â°C | @Load 22.0 lb, Temperature 572 Â°F | |
| Melt Index of Compound | 50 g/10 min | 50 g/10 min | MVR [cm ³ /10 min]; ISO 1133 |
| | @Load 10.0 kg, Temperature 300 Â°C | @Load 22.0 lb, Temperature 572 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-------------------|
| Tensile Strength at Break | 44.0 MPa | 6380 psi | 5 mm/min; ISO 527 |
| | 55.0 MPa | 7980 psi | ASTM D638 |
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | ASTM D638 |
| | 55.0 MPa | 7980 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 9.0 % | 9.0 % | ASTM D638 |
| | 9.0 % | 9.0 % | 5 mm/min; ISO 527 |
| Elongation at Yield | 5.0 % | 5.0 % | ASTM D638 |

| Mechanical Properties | Metric | English | Comments ISO 527 |
|------------------------------|--|--|---------------------|
| Tensile Modulus | 2.40 GPa | 348 ksi | 5 mm/min; ASTM D638 |
| | 2.40 GPa | 348 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 84.0 MPa | 12200 psi | ASTM D790 |
| | 88.0 MPa | 12800 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.20 GPa | 319 ksi | ASTM D790 |
| | 2.40 GPa | 348 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 1.80 J/cm | 3.37 ft-lb/in | ASTM D256 |
| | 1.00 J/cm @Temperature -40.0 Â°C | 1.87 ft-lb/in @Temperature -40.0 Â°F | ASTM D256 |
| Izod Impact, Unnotched | 16.0 J/cm | 30.0 ft-lb/in | ASTM D4812 |
| | 15.0 J/cm @Temperature -40.0 Â°C | 28.1 ft-lb/in @Temperature -40.0 Â°F | ASTM D4812 |
| Izod Impact, Notched (ISO) | 16.0 kJ/mÂ² | 7.61 ft-lb/inÂ² | 80*10*4; ISO 180/1A |
| | 10.0 kJ/mÂ² @Temperature -40.0 Â°C | 4.76 ft-lb/inÂ² @Temperature -40.0 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 130 kJ/mÂ² | 61.9 ft-lb/inÂ² | 80*10*4; ISO 180/1U |
| | 100 kJ/mÂ² @Temperature -40.0 Â°C | 47.6 ft-lb/inÂ² @Temperature -40.0 Â°F | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|----------------------------------|---------------------------------|-------------|
| CTE, linear, Parallel to Flow | 50.0 Âµm/m-Â°C | 27.8 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| | 50.0 Âµm/m-Â°C | 27.8 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| CTE, linear, Transverse to Flow | 50.0 Âµm/m-Â°C | 27.8 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |

| Thermal Properties | Metric $\mu\text{m}/\text{m}-\text{Å}^{\circ}\text{C}$ | English $\text{in}/\text{in}-\text{Å}^{\circ}\text{F}$ | Comments |
|---|--|--|----------------------------------|
| | @Temperature -40.0 - 40.0 $\text{Å}^{\circ}\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^{\circ}\text{F}$ | ISO 11359-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 124 $\text{Å}^{\circ}\text{C}$ | 255 $\text{Å}^{\circ}\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 125 $\text{Å}^{\circ}\text{C}$ | 257 $\text{Å}^{\circ}\text{F}$ | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Flammability, UL94 | V-1 | V-1 | UL 94 |
| | @Thickness 2.50 mm | @Thickness 0.0984 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|-----------|
| Volume Resistivity | 1.00e+6 - 1.00e+10 ohm-cm | 1.00e+6 - 1.00e+10 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+6 - 1.00e+10 ohm | 1.00e+6 - 1.00e+10 ohm | ASTM D257 |

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