

SABIC Innovative Plastics LNP STAT-LOY K3000SZ Acetal Copoly (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

LNP* Stat-loy* K3000SZ is a compound based on Acetal Copolymer resin containing Anti-Static. Added features of this material include: Antistat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-K3000SZ-Acetal-Copoly-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|---------------------------|---------------------------|
| Density | 1.32 g/cc | 0.0477 lb/in ³ | ASTM D792 |
| | 1.33 g/cc | 0.0480 lb/in ³ | ISO 1183 |
| Moisture Absorption | 2.20 % | 2.20 % | 50% RH, 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.018 cm/cm | 0.018 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0181 cm/cm | 0.0181 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.018 cm/cm | 0.018 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0183 cm/cm | 0.0183 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-------------------|
| Tensile Strength at Break | 31.0 MPa | 4500 psi | ASTM D638 |
| | 36.0 MPa | 5220 psi | ISO 527 |
| Tensile Strength, Yield | 41.0 MPa | 5950 psi | ASTM D638 |
| | 42.0 MPa | 6090 psi | ISO 527 |
| Elongation at Break | 49.3 % | 49.3 % | ISO 527 |
| | 59.5 % | 59.5 % | ASTM D638 |
| Elongation at Yield | 13.3 % | 13.3 % | ISO 527 |
| | 15.8 % | 15.8 % | ASTM D638 |
| Tensile Modulus | 1.50 GPa | 218 ksi | 1 mm/min; ISO 527 |

| Mechanical Properties | 1.59 GPa Metric | 231 ksi English | 50 mm/min; ASTM D638 Comments |
|----------------------------------|--|--|--|
| Flexural Strength | 40.0 MPa | 5800 psi | ISO 178 |
| | 48.0 MPa | 6960 psi | ASTM D790 |
| Flexural Modulus | 1.44 GPa | 209 ksi | ASTM D790 |
| | 1.50 GPa | 218 ksi | ISO 178 |
| Izod Impact, Notched | 1.49 J/cm | 2.79 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | NB | NB | ASTM D4812 |
| Izod Impact, Notched (ISO) | 15.0 kJ/m ² | 7.14 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | NB | NB | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 29.0 J | 21.4 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 17.0 J | 12.5 ft-lb | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.42 | 0.42 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.24 | 0.24 | ASTM D3702 Modified |
| K (wear) Factor | 28.2 x 10 ⁻⁸ mm ³ /N-M | 14.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|---------------------------------|-----------------------|
| CTE, linear, Parallel to Flow | 130 Åµm/m-Å°C | 72.2 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| | 130 Åµm/m-Å°C | 72.2 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| CTE, linear, Transverse to Flow | 133 Åµm/m-Å°C | 73.9 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| | 133 Åµm/m-Å°C | 73.9 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 146 Å°C | 295 Å°F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Deflection Temperature at 1.8 MPa | 67.0 Å°C | 153 Å°F | unannealed; ASTM D648 |

| (264 psi) Thermal Properties | @Thickness 3.20 mm Metric | @Thickness 0.126 in English | Comments |
|---------------------------------|------------------------------|--------------------------------|-----------|
| Electrical Properties | Metric | English | Comments |
| Surface Resistance | 1.00e+9 - 1.00e+11 ohm | 1.00e+9 - 1.00e+11 ohm | ASTM D257 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China