

SABIC Innovative Plastics LNP STAT-KON OEL36A PPS - BRANCHED

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* STAT-KON* OEL36A is a compound based on PPS - Branched resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-OEL36A-PPS-BRANCHED.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-------------------------|---------------------------|------------------------------------|
| Specific Gravity | 1.54 g/cc | 1.54 g/cc | ASTM D792 |
| Density | 1.54 g/cc | 0.0556 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.0200 % | 0.0200 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.0300 % | 0.0300 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.00050 - 0.00070 cm/cm | 0.00050 - 0.00070 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|-----------------------------------|
| Tensile Strength at Break | 168 MPa | 24400 psi | 5 mm/min; ISO 527 |
| | 172 MPa | 24900 psi | Type I, 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | 170 MPa | 24700 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 0.90 % | 0.90 % | Type I, 5 mm/min; ASTM D638 |
| | 0.90 % | 0.90 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 25.16 GPa | 3649 ksi | 1 mm/min; ISO 527 |
| | 26.62 GPa | 3861 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 225 MPa | 32600 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 258 MPa | 37400 psi | ISO 178 |
| Flexural Modulus | 20.7 GPa | 3000 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 21.62 GPa | 3136 ksi | 2 mm/min; ISO 178 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------------------|-------------------------------------|-----------------------------|
| Izod Impact, Unnotched | 3.99 J/cm | 7.47 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 22.0 kJ/m ² | 10.5 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 5.00 J @Temperature 23.0 Â°C | 3.69 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 2.00 J | 1.48 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|----------------------------------|-----------------------------------|
| CTE, linear, Parallel to Flow | 8.24 Âµm/m-Â°C | 4.58 Âµin/in-Â°F | ASTM D696 |
| | @Temperature -30.0 - 30.0 Â°C | @Temperature -22.0 - 86.0 Â°F | |
| CTE, linear, Transverse to Flow | 41.3 Âµm/m-Â°C | 22.9 Âµin/in-Â°F | ASTM D696 |
| | @Temperature -30.0 - 30.0 Â°C | @Temperature -22.0 - 86.0 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 277 Â°C | 531 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 277 Â°C @Thickness 3.20 mm | 531 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 262 Â°C | 504 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/ Af |
| | 263 Â°C @Thickness 3.20 mm | 505 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|-----------|
| Surface Resistance | 1.0 - 3.0 ohm | 1.0 - 3.0 ohm | ASTM D257 |

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