

SABIC Innovative Plastics LNP COLORCOMP JX91550 PES (Asia Pacific)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP COLORCOMP* JX91550 is a compound based on Polyethersulfone resin containing Unfilled Custom Color.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-JX91550-PES-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|-----------------------|
| Density | 1.49 g/cc | 0.0538 lb/in ³ | ASTM D792 |
| | 1.49 g/cc | 0.0538 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.760 % | 0.760 % | 23°C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0070 - 0.0090 cm/cm | 0.0070 - 0.0090 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0070 - 0.0090 cm/cm | 0.0070 - 0.0090 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|----------------------|
| Tensile Strength at Break | 53.0 MPa | 7690 psi | ISO 527 |
| | 58.0 MPa | 8410 psi | ASTM D638 |
| Tensile Strength, Yield | 77.0 MPa | 11200 psi | ASTM D638 |
| | 78.0 MPa | 11300 psi | ISO 527 |
| Elongation at Break | 13.5 % | 13.5 % | ASTM D638 |
| | 23.4 % | 23.4 % | ISO 527 |
| Elongation at Yield | 5.6 % | 5.6 % | ASTM D638 |
| | 6.2 % | 6.2 % | ISO 527 |
| Tensile Modulus | 2.83 GPa | 410 ksi | 1 mm/min; ISO 527 |
| | 2.93 GPa | 425 ksi | 50 mm/min; ASTM D638 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---|
| | 122 MPa | 17700 psi | ASTM D790 |
| Flexural Modulus | 2.89 GPa | 419 ksi | ASTM D790 |
| | 2.92 GPa | 424 ksi | ISO 178 |
| Izod Impact, Notched | 0.530 J/cm | 0.993 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | NB | NB | 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) | NB | NB | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 19.0 J | 14.0 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 32.0 J | 23.6 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 50.5 µm/m-°C | 28.1 µin/in-°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| | 50.7 µm/m-°C | 28.2 µin/in-°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| CTE, linear, Transverse to Flow | 51.4 µm/m-°C | 28.6 µin/in-°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 51.5 µm/m-°C | 28.6 µin/in-°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| | 187 °C | 369 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 176 °C | 349 °F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

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