

SABIC Innovative Plastics LNP VERTON UX03320 PPA (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

VERTON* UX03320 is a compound based on Polyphthalamide resin containing Long Glass.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-UX03320-PPA-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|------------------------|---------------------------|------------------------------------|
| Density | 1.63 g/cc | 0.0589 lb/in ³ | ASTM D792 |
| | 1.63 g/cc | 0.0589 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.200 % | 0.200 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.300 % | 0.300 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.00060 cm/cm | 0.00060 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.00050 - 0.0010 cm/cm | 0.00050 - 0.0010 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.00080 - 0.0020 cm/cm | 0.00080 - 0.0020 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0015 cm/cm | 0.0015 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Spiral Flow | 30.0 cm | 11.8 in | SABIC Method |
| | @Thickness 1.00 mm | @Thickness 0.0394 in | |
| | 70.0 cm | 27.6 in | SABIC Method |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------|-----------|-----------|
| Tensile Strength at Break | 200 MPa | 29000 psi | ISO 527 |
| | 220 MPa | 31900 psi | ASTM D638 |
| Elongation at Break | 1.9 % | 1.9 % | ASTM D638 |
| | 1.9 % | 1.9 % | ISO 527 |

| Mechanical Properties | Metric ^{19.0 GPa} | English ^{2740 ksi} | Comments ^{ASTM D638} |
|------------------------------|------------------------------------|-------------------------------------|-------------------------------|
| | 20.3 GPa | 2940 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 300 MPa | 43500 psi | ASTM D790 |
| | 360 MPa | 52200 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 17.7 GPa | 2570 ksi | 2 mm/min; ISO 178 |
| | 18.0 GPa | 2610 ksi | ASTM D790 |
| Izod Impact, Notched | 3.00 J/cm | 5.62 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 8.00 J/cm | 15.0 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 38.0 kJ/m ² | 18.1 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 70.0 kJ/m ² | 33.3 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 15.0 J @Temperature 23.0 Â°C | 11.1 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 19.0 J | 14.0 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|--|---|----------------------------------|
| CTE, linear, Parallel to Flow | 12.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 6.67 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 12.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 6.67 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 22.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 12.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 22.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 12.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 275 Â°C | 527 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 260 Â°C @Thickness 3.20 mm | 500 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | UL 94 |

| Thermal Properties | @Thickness 0.800 mm Metric | @Thickness 0.0315 in English | Comments |
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