

Samyang Tribit® 1551GN30 PBT, Impact

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

Material Notes:

Crystallization is fast, formability is excellent and thermal resistance, chemical resistance, electrical properties and abrasion resistance are excellent. 1551GN30 is an impact grade. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1551GN30-PBT-Impact.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Specific Gravity | 1.59 g/cc | 1.59 g/cc | ASTM D792 |
| Water Absorption | 0.070 % | 0.070 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.012 cm/cm | 0.0020 - 0.012 in/in | ASTM D955 |
| Melt Flow | 40 g/10 min @Load 2.16 kg, Temperature 250 Å°C | 40 g/10 min @Load 4.76 lb, Temperature 482 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength | 118 MPa | 17100 psi | ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | ASTM D638 |
| Flexural Yield Strength | 167 MPa | 24200 psi | ASTM D790 |
| Flexural Modulus | 7.35 GPa | 1070 ksi | ASTM D790 |
| Izod Impact, Notched | 0.588 J/cm @Thickness 3.17 mm | 1.10 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------------------|-----------------------------|-----------|
| CTE, linear | 30.0 Åµm/m-Å°C | 16.7 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 225 Å°C | 437 Å°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Å°C | 410 Å°F | ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 0.750 mm | V-0 @Thickness 0.0295 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.2 | 3.2 | ASTM D150 |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | ASTM D149 |
| Dissipation Factor | 0.016 | 0.016 | ASTM D150 |
| Arc Resistance | 110 sec | 110 sec | ASTM D495 |

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