

## Samyang Triloy<sup>®</sup> 220 Polymer Alloy, High Impact

Category : Polymer , Thermoplastic

### Material Notes:

Excellent impact, formability and weather resistance. 220 is a high impact grade. Applications: Automotive instrument panels and knob types. Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Triloy-220-Polymer-Alloy-High-Impact.php](http://www.lookpolymers.com/polymer_Samyang-Triloy-220-Polymer-Alloy-High-Impact.php)

| Physical Properties   | Metric  | English   | Comments   |
|-----------------------|---|---|------------|
| Specific Gravity      | 1.14 g/cc   | 1.14 g/cc   | ASTM D792  |
| Water Absorption      | 0.20 %  | 0.20 %  | ASTM D570  |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm                                 | 0.0050 - 0.0070 in/in                                 | ASTM D955  |
| Melt Flow             | 5.0 g/10 min<br>@Load 5.00 kg,<br>Temperature 250 Â°C | 5.0 g/10 min<br>@Load 11.0 lb,<br>Temperature 482 Â°F | ASTM D1238 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 120                             | 120                                  | ASTM D785 |
| Tensile Strength        | 56.9 MPa                        | 8250 psi                             | ASTM D638 |
| Elongation at Break     | 130 %                           | 130 %                                | ASTM D638 |
| Flexural Yield Strength | 79.4 MPa                        | 11500 psi                            | ASTM D790 |
| Flexural Modulus        | 2.16 GPa                        | 313 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 6.37 J/cm<br>@Thickness 3.17 mm | 11.9 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments  |
|---|--------------------------|----------------------------|-----------|
| CTE, linear                                 | 73.0 Âµm/m-Â°C           | 40.6 Âµin/in-Â°F           | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 115 Â°C                  | 239 Â°F                    | ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |           |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 5.00e+16 ohm-cm | 5.00e+16 ohm-cm | ASTM D257 |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 25.0 kV/mm | 635 kV/in | ASTM D149 |
| Dissipation Factor    | 0.0090     | 0.0090    | ASTM D150 |
| Arc Resistance        | 123 sec    | 123 sec   | ASTM D495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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