

## Kingfa LONoy 1200 PC/PBT Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

Features:Excellent balance propertiesGood weather resistanceGood size stabilitySmooth surfaceUniform colorApplications:Injection moldingAutomobile bumperAutomobile interior/exterior trim partsBusiness machine cabinetLarge partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-LONoy-1200-PCPBT-Alloy.php](http://www.lookpolymers.com/polymer_Kingfa-LONoy-1200-PCPBT-Alloy.php)

| Physical Properties   | Metric                                                | English                                               | Comments   |
|-----------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity      | 1.23 g/cc<br>@Temperature 23.0<br>Â°C                 | 1.23 g/cc<br>@Temperature 73.4 Â°F                    | ASTM D792  |
| Water Absorption      | 0.12 %<br>@Temperature 23.0<br>Â°C,<br>Time 86400 sec | 0.12 %<br>@Temperature 73.4<br>Â°F,<br>Time 24.0 hour | ASTM D570  |
| Linear Mold Shrinkage | 0.0060 - 0.0080 cm/cm<br>@Temperature 23.0<br>Â°C     | 0.0060 - 0.0080 in/in<br>@Temperature 73.4 Â°F        | ASTM D955  |
| Melt Flow             | 45 g/10 min<br>@Load 5.00 kg,<br>Temperature 260 Â°C  | 45 g/10 min<br>@Load 11.0 lb,<br>Temperature 500 Â°F  | ASTM D1238 |

| Mechanical Properties     | Metric                                                      | English                                                          | Comments            |
|---------------------------|-------------------------------------------------------------|------------------------------------------------------------------|---------------------|
| Hardness, Rockwell R      | 115                                                         | 115                                                              | ASTM D785           |
| Tensile Strength at Break | 55.0 MPa                                                    | 7980 psi                                                         | 50mm/min; ASTM D638 |
| Elongation at Break       | >= 80 %                                                     | >= 80 %                                                          | 50mm/min; ASTM D638 |
| Flexural Strength         | 80.0 MPa                                                    | 11600 psi                                                        | 2mm/min; ASTM D790  |
| Flexural Modulus          | 2.20 GPa                                                    | 319 ksi                                                          | 2mm/min; ASTM D790  |
| Izod Impact, Notched      | >= 7.00 J/cm<br>@Thickness 3.20 mm,<br>Temperature 23.0 Â°C | >= 13.1 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature 73.4 Â°F | ASTM D256           |
| Izod Impact, Unnotched    | NB<br>@Thickness 3.20 mm,<br>Temperature 23.0 Â°C           | NB<br>@Thickness 0.126 in,<br>Temperature 73.4 Â°F               | ASTM D256           |

| Thermal Properties                          | Metric                         | English                        | Comments       |
|---------------------------------------------|--------------------------------|--------------------------------|----------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 110 Â°C<br>@Thickness 6.40 mm  | 230 Â°F<br>@Thickness 0.252 in | ASTM D648      |
| Deflection Temperature at 1.8 MPa (264 psi) | 83.0 Â°C<br>@Thickness 6.40 mm | 181 Â°F<br>@Thickness 0.252 in | ASTM D648      |
| Flame Spread                                | <= 100 mm/min                  | <= 3.94 in/min                 | 1.6mm; GM9070P |

| Electrical Properties | Metric          | English         | Comments         |
|-----------------------|-----------------|-----------------|------------------|
| Volume Resistivity    | 1.00e+17 ohm-cm | 1.00e+17 ohm-cm | ASTM D257        |
| Surface Resistance    | 1.00e+15 ohm    | 1.00e+15 ohm    | ASTM D257        |
| Dielectric Strength   | 28.0 kV/mm      | 711 kV/in       | 1.6mm; ASTM D149 |

| Processing Properties     | Metric                             | English                           | Comments            |
|---------------------------|------------------------------------|-----------------------------------|---------------------|
| Processing Temperature    | <= 280 Â°C                         | <= 536 Â°F                        |                     |
| Rear Barrel Temperature   | 230 - 260 Â°C                      | 446 - 500 Â°F                     | Start Point: 250Â°C |
| Middle Barrel Temperature | 240 - 270 Â°C                      | 464 - 518 Â°F                     | Start Point: 250Â°C |
| Front Barrel Temperature  | 240 - 270 Â°C                      | 464 - 518 Â°F                     | Start Point: 245Â°C |
| Melt Temperature          | 240 - 270 Â°C                      | 464 - 518 Â°F                     | Start Point: 250Â°C |
| Mold Temperature          | 70.0 - 90.0 Â°C                    | 158 - 194 Â°F                     | Start Point: 80Â°C  |
| Drying Temperature        | 110 Â°C<br>@Time 10800 - 14400 sec | 230 Â°F<br>@Time 3.00 - 4.00 hour | Pre-dry             |
| Back Pressure             | 0.300 - 0.700 MPa                  | 43.5 - 102 psi                    |                     |

| Descriptive Properties | Value   | Comments |
|------------------------|---------|----------|
| Injection Speed        | 60-100% |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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