

## LTL Color Compounds ColorFast® FRPA100X Polycarbonate-ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

V-0 rated polycarbonate-ABS alloy, excellent toughness and light stability All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LTL-Color-Compounds-ColorFast-FRPA100X-Polycarbonate-ABS-Alloy.php](http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPA100X-Polycarbonate-ABS-Alloy.php)

| Physical Properties   | Metric                                              | English                                             | Comments         |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|------------------|
| Specific Gravity      | 1.19 g/cc                                           | 1.19 g/cc                                           | ASTM D792        |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm                               | 0.0040 - 0.0060 in/in                               | 0.125; ASTM D955 |
| Melt Flow             | 14 g/10 min<br>@Load 2.16 kg,<br>Temperature 260 °C | 14 g/10 min<br>@Load 4.76 lb,<br>Temperature 500 °F | ASTM D1238       |

| Mechanical Properties     | Metric                            | English                               | Comments              |
|---------------------------|-----------------------------------|---------------------------------------|-----------------------|
| Hardness, Rockwell R      | 122                               | 122                                   | ASTM D785             |
| Tensile Strength at Break | 55.8 MPa                          | 8100 psi                              | 2.0 in/min; ASTM D638 |
| Tensile Strength, Yield   | 60.0 MPa                          | 8700 psi                              | 2.0 in/min; ASTM D638 |
| Elongation at Break       | 90 %                              | 90 %                                  | 2.0 in/min; ASTM D638 |
| Elongation at Yield       | 4.0 %                             | 4.0 %                                 | 2.0 in/min; ASTM D638 |
| Flexural Strength         | 95.1 MPa                          | 13800 psi                             | 2.0 in/min; ASTM D790 |
| Flexural Modulus          | 2.70 GPa                          | 392 ksi                               | 2.0 in/min; ASTM D790 |
| Izod Impact, Notched      | 6.41 J/cm<br>@Temperature 22.8 °C | 12.0 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256             |

| Thermal Properties                          | Metric                    | English                     | Comments                       |
|---------------------------------------------|---------------------------|-----------------------------|--------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 95.0 °C                   | 203 °F                      | Unannealed (0.250"); ASTM D648 |
| Flammability, UL94                          | V-0<br>@Thickness 1.50 mm | V-0<br>@Thickness 0.0591 in |                                |

| Processing Properties   | Metric       | English      | Comments |
|-------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 210 - 254 °C | 410 - 490 °F |          |

| Middle Barrel Temperature<br>Processing Properties | 216 - 260 °C<br>Metric | 420 - 500 °F<br>English | Comments                                |
|----------------------------------------------------|------------------------|-------------------------|-----------------------------------------|
| Front Barrel Temperature                           | 227 - 274 °C           | 440 - 525 °F            |                                         |
| Nozzle Temperature                                 | 232 - 274 °C           | 450 - 525 °F            |                                         |
| Melt Temperature                                   | 232 - 274 °C           | 450 - 525 °F            |                                         |
| Mold Temperature                                   | 60.0 - 82.2 °C         | 140 - 180 °F            |                                         |
| Drying Temperature                                 | 82.2 °C                | 180 °F                  |                                         |
| Dry Time                                           | 3 - 4 hour             | 3 - 4 hour              | nominal; maximum drying time of 8 hours |
| Back Pressure                                      | 0.345 - 0.689 MPa      | 50.0 - 100 psi          |                                         |
| Shot Size                                          | 30 - 60 %              | 30 - 60 %               |                                         |
| Vent Depth                                         | 0.00381 - 0.00762 cm   | 0.00150 - 0.00300 in    |                                         |
| Screw Speed                                        | 30 - 75 rpm            | 30 - 75 rpm             |                                         |

## Contact Songhan Plastic Technology Co.,Ltd.

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