

LTL Color Compounds ColorFast® FRA202 General Purpose ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

General purpose V0/5VA-rated ABS All information provided by LTL Color Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRA202-General-Purpose-ABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|------------------|
| Specific Gravity | 1.21 g/cc | 1.21 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | 0.125; ASTM D955 |
| Melt Flow | 11 g/10 min @Load 3.80 kg, Temperature 230 °C | 11 g/10 min @Load 8.38 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------------------------|---------------------------------------|-----------------------|
| Hardness, Rockwell R | 95 | 95 | ASTM D785 |
| Tensile Strength, Yield | 39.3 MPa | 5700 psi | 2.0 in/min; ASTM D638 |
| Elongation at Break | 10 % | 10 % | 2.0 in/min; ASTM D638 |
| Flexural Strength | 57.9 MPa | 8400 psi | 2.0 in/min; ASTM D790 |
| Flexural Modulus | 2.28 GPa | 330 ksi | 2.0 in/min; ASTM D790 |
| Izod Impact, Notched | 2.14 J/cm @Temperature 22.8 °C | 4.00 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|-----------------------------|--------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 73.9 °C | 165 °F | Unannealed (0.250"); ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0591 in | |
| | 5VA @Thickness 2.60 mm | 5VA @Thickness 0.102 in | |

| Electrical Properties | Metric | English | Comments |
|------------------------|--------------|--------------|----------|
| Hot Wire Ignition, HWI | 7.0 - 15 sec | 7.0 - 15 sec | UL746 |

| Electrical Properties | @Thickness 1.50 mm Metric | @Thickness 0.0591 in English | Comments |
|----------------------------|------------------------------|---------------------------------|----------|
| | >= 120 sec | >= 120 sec | UL746 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| High Amp Arc Ignition, HAI | >= 120 arcs | >= 120 arcs | UL746 |
| | @Time 1.50 sec | @Time 0.000417 hour | |
| | >= 120 arcs | >= 120 arcs | UL746 |
| | @Time 3.00 sec | @Time 0.000833 hour | |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------------|----------------------|---|
| Rear Barrel Temperature | 171 - 182 Â°C | 340 - 360 Â°F | |
| Middle Barrel Temperature | 199 - 210 Â°C | 390 - 410 Â°F | |
| Front Barrel Temperature | 210 - 221 Â°C | 410 - 430 Â°F | |
| Nozzle Temperature | 193 - 221 Â°C | 380 - 430 Â°F | |
| Melt Temperature | 193 - 232 Â°C | 380 - 450 Â°F | |
| Mold Temperature | 71.1 - 82.2 Â°C | 160 - 180 Â°F | |
| Drying Temperature | 71.1 - 82.2 Â°C | 160 - 180 Â°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 | 50 - 70 % | 50 - 70 % | |
| Vent Depth | 0.00381 - 0.00508 cm | 0.00150 - 0.00200 in | |
| Screw Speed | 30 - 60 rpm | 30 - 60 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------|
| UL File Number | E178307 | |

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