



ColorFast® FRA202

General purpose V0/5VA-rated ABS

Physical Properties

| MEASUREMENT | CONDITION | Value |
|---|------------|------------------------|
| Density / Specific Gravity | ASTM D792 | 1.20 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | ASTM D1238 | 11 g/10 min |
| Molding Shrinkage - Flow (0.125 in) | ASTM D955 | 3.0E-3 to 6.0E-3 in/in |

Hardness Properties

| MEASUREMENT | CONDITION | Value |
|-----------------------------|-----------|-------|
| Rockwell Hardness (R-Scale) | ASTM D785 | 95 |

Mechanical Properties

| MEASUREMENT | CONDITION | Value |
|---|-----------|----------------------|
| Tensile Strength ³ Yield Break | ASTM D638 | 6000 psi 4300 psi |
| Tensile Elongation ³ Yield Break | ASTM D638 | 3.0 % 8.0 % |
| Flexural Modulus ³ | ASTM D790 | 330000 psi |
| Flexural Strength ³ | ASTM D790 | 8500 psi |

Impact Properties

| MEASUREMENT | CONDITION | Value |
|----------------------------|-----------|--------------|
| Notched Izod Impact (73°F) | ASTM D256 | 4.0 ft-lb/in |

Features

- Flame Retardant
- General Purpose

Applications

- General Purpose

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ColorFast[®] FRA202

Thermal Properties

| MEASUREMENT | CONDITION | Value |
|--|-----------|-------|
| Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in) | ASTM D648 | 165°F |

Flammability Properties

| MEASUREMENT | CONDITION | Value |
|------------------------------------|-----------|------------|
| Flame Rating 0.06 in 0.10 in | UL 94 | V-0 5VA |

Injection Properties

| MEASUREMENT | Value |
|------------------------|---------------------|
| Drying Temperature | 160 to 180°F |
| Drying Time | 3.0 to 4.0hr |
| Drying Time, Maximum | 8.0hr |
| Suggested Shot Size | 50 to 70% |
| Rear Temperature | 340 to 360°F |
| Middle Temperature | 390 to 410°F |
| Front Temperature | 410 to 430°F |
| Nozzle Temperature | 380 to 430°F |
| Processing (Melt) Temp | 380 to 450°F |
| Mold Temperature | 160 to 180°F |
| Back Pressure | 50.0 to 100 psi |
| Screw Speed | 30 to 60 rpm |
| Vent Depth | 1.5E-3 to 2.0E-3 in |

³2.0 in/min

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