

Lucky Enpla LAY100F

Polycarbonate + ABS

Lucky Enpla Co LTD

Message:

Lucky Enpla LAY100F is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. Lucky Enpla LAY100F applications include electrical/electronic applications and housing. Features include:
flame retardant/rated flame
high liquidity
Halogen-free

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| UL YellowCard | E217401-229374 | | |
| Features | High liquidity | | |
| | Halogen-free | | |
| Uses | Computer components | | |
| | Electrical/Electronic Applications | | |
| | Electrical housing | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.18 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.40 - 0.60 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | 54.9 | MPa | ASTM D638 |
| Flexural Modulus ² | 2350 | MPa | ASTM D790 |
| Flexural Strength ³ | 83.4 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Unnotched Izod Impact (3.18 mm) | 490 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 92.0 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | | | UL 94 |
| 1.50 mm | V-0 | | UL 94 |
| | V-0 | | |
| 3.00 mm | 5VB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 70.0 - 90.0 | °C | |

| | | |
|--------------------|--------------|-----|
| Drying Time | 2.0 - 3.0 | hr |
| Rear Temperature | 230 - 250 | °C |
| Middle Temperature | 230 - 250 | °C |
| Front Temperature | 240 - 260 | °C |
| Nozzle Temperature | 240 - 260 | °C |
| Mold Temperature | 30.0 - 60.0 | °C |
| Back Pressure | 0.490 - 1.47 | MPa |
| Screw Speed | 40 - 70 | rpm |

Injection instructions

Resin Temperature: 240-260°C Injection Pressure (1st Pressure): 800-1200 kg/cm² Injection Pressure (2nd Pressure): 300-700 kg/cm²

NOTE

1. 50 mm/min
2. 10 mm/min
3. 10 mm/min

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