

# Loyblend® YA-1101

Acrylonitrile Butadiene Styrene + PBT

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Loyblend® YA-1101 is 20% glass fiber filled PBT/ABS polymer alloy compound. This grade offers high rigidity, low wear, mechanical properties and chemical resistance properties.

| General Information  |                                    |                   |             |
|--|------------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fiber,20% Filler by Weight   |                   |             |
| Features   | Good Chemical Resistance           |                   |             |
|  | Good Wear Resistance               |                   |             |
|  | High Heat Resistance               |                   |             |
|  | High Rigidity                      |                   |             |
| Uses   | Appliances                         |                   |             |
|  | Business Equipment                 |                   |             |
|  | Electrical/Electronic Applications |                   |             |
|  | Printer Parts                      |                   |             |
| Forms  | Pellets                            |                   |             |
| Processing Method  | Injection Molding                  |                   |             |
| Physical   | Nominal Value                      | Unit              | Test Method |
| Specific Gravity   | 1.32                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                               | 0.30 to 0.50                       | %                 | ASTM D955   |
| Water Absorption (24 hr)   | 0.15                               | %                 | ASTM D570   |
| Mechanical   | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus  | 9200                               | MPa               | ASTM D638   |
| Tensile Strength   | 100                                | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                       | 4.2                                | %                 | ASTM D638   |
| Flexural Modulus   | 5480                               | MPa               | ASTM D790   |
| Flexural Strength  | 145                                | MPa               | ASTM D790   |
| Impact   | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 98                                 | J/m               | ASTM D256   |
| Thermal  | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm) | 184                                | °C                | ASTM D648   |
| Flammability   | Nominal Value                      |                   | Test Method |
| Flame Rating (1.60 mm)   | HB                                 |                   | UL 94       |
| Injection  | Nominal Value                      | Unit              |             |
| Drying Temperature   | 80.0 to 90.0                       | °C                |             |
| Drying Time  | 4.0 to 6.0                         | hr                |             |

|                    |              |    |
|--------------------|--------------|----|
| Rear Temperature   | 230 to 240   | °C |
| Middle Temperature | 235 to 245   | °C |
| Front Temperature  | 240 to 250   | °C |
| Nozzle Temperature | 250 to 260   | °C |
| Mold Temperature   | 50.0 to 90.0 | °C |

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