

# DESLON™ 6 DSC101M6

Polyamide 6

DESCO Co., Ltd.

## Message:

Descriptions: DESLON™ DSC101M6 is Polyamide6 Mineral Filler 30% filled reinforced resin. It provides good mechanical properties and dimensions stability.

Applications: DESLON™ DSC101M6 is one of the most-used for good surface appearance and good dimensions stability goods etc. such as Rice Cooker Ring.

| General Information               |  |                   |             |
|-----------------------------------|--|-------------------|-------------|
| UL YellowCard                     | E251362-100129379                                  |                   |             |
| Filler / Reinforcement            | Mineral filler, 30% filler by weight               |                   |             |
| Features                          | Good dimensional stability<br>Excellent appearance |                   |             |
| Uses                              | Washer   |                   |             |
| Processing Method                 | Injection molding                                  |                   |             |
| Physical                          | Nominal Value                                      | Unit              | Test Method |
| Specific Gravity                  | 1.38   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow          | 0.50 - 0.60  | %                 |             |
| Water Absorption (23°C, 24 hr)    | 1.3  | %                 | ASTM D570   |
| Hardness                          | Nominal Value                                      | Unit              | Test Method |
| Rockwell Hardness (R-Scale)       | 117  |                   | ASTM D785   |
| Mechanical                        | Nominal Value                                      | Unit              | Test Method |
| Tensile Strength                  | 74.5   | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 4.0  | %                 | ASTM D638   |
| Flexural Modulus                  | 5880   | MPa               | ASTM D790   |
| Flexural Strength                 | 127  | MPa               | ASTM D790   |
| Impact                            | Nominal Value                                      | Unit              | Test Method |
| Notched Izod Impact               | 39   | J/m               | ASTM D256   |
| Thermal                           | Nominal Value                                      | Unit              | Test Method |
| Deflection Temperature Under Load |  |                   | ASTM D648   |
| 0.45 MPa, not annealed            | 200  | °C                | ASTM D648   |
| 1.8 MPa, not annealed             | 150  | °C                | ASTM D648   |
| Melting Temperature               | 220  | °C                | DSC         |
| Electrical                        | Nominal Value                                      | Unit              | Test Method |
| Volume Resistivity                | 1.0E+12 - 1.0E+14                                  | ohms · cm         | ASTM D257   |
| Dielectric Strength               | 22   | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)       | 4.00   |                   | ASTM D150   |
| Arc Resistance                    | 190  | sec               | ASTM D495   |
| Flammability                      | Nominal Value                                      | Unit              | Test Method |

| Flame Rating           | HB            | UL 94 |
|------------------------|---------------|-------|
| Injection              | Nominal Value | Unit  |
| Drying Temperature     | 80.0 - 120    | °C    |
| Drying Time            | 3.0 - 5.0     | hr    |
| Suggested Max Moisture | < 0.20        | %     |
| Rear Temperature       | 240 - 250     | °C    |
| Middle Temperature     | 250 - 260     | °C    |
| Front Temperature      | 250 - 270     | °C    |
| Nozzle Temperature     | 255 - 270     | °C    |
| Processing (Melt) Temp | 255 - 270     | °C    |
| Mold Temperature       | 80.0 - 100    | °C    |

#### Injection instructions

Speed: 30 to 60% Pressure 1st: 30 to 70% Pressure 2nd: 30 to 70% Holding Pressure: 10 to 30%

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