

DESLON™ 6 DSC101IG6

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC101IG6 is Polyamide6 Glass Fiber 30% filled reinforced resin. It provides high mechanical properties, strength and impact resistance property.

Applications: DESLON™ DSC101IG6 can be applied with industrial goods which requested good physical properties of high strength, elasticity etc. also it has the good injection molding property. So it is one of the most-used automotive parts of Seat Folding Lever.

| General Information | | | |
|-----------------------------------|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Features | High elasticity | | |
| | High strength | | |
| | Impact resistance, high | | |
| | Good liquidity | | |
| Uses | Handle | | |
| | Application in Automobile Field | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.34 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.60 - 0.80 | % | |
| Water Absorption (23°C, 24 hr) | 1.0 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 117 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 127 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 7060 | MPa | ASTM D790 |
| Flexural Strength | 196 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 200 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 210 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 200 | °C | ASTM D648 |
| Melting Temperature | 220 | °C | DSC |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 3.0E+12 | ohms · cm | ASTM D257 |
| Dielectric Strength | 20 | kV/mm | ASTM D149 |

| | | | |
|-----------------------------|---------------|------|-------------|
| Dielectric Constant (1 MHz) | 3.50 | | ASTM D150 |
| Arc Resistance | 180 | 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 70Holding Pressure: 10 to 30%

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