

DESLON™ 6 DSC102GK

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC102GK is one of the brands which made by Polyamide6 that filled Glass Fiber 35% and enhanced impact goods. It provides good mechanical property, excellent strength property and elasticity property.

Applications: DESLON™ DSC102GK is one of the most-used for mechanical properties of high strength, elasticity and impact resistance good, such as Drive Main Chain, etc.

| General Information | | | |
|-----------------------------------|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 35% filler by weight | | |
| Features | High elasticity | | |
| | High strength | | |
| | Impact resistance, good | | |
| Uses | Application in Automobile Field | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.35 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.30 - 0.80 | % | |
| Water Absorption (23°C, 24 hr) | 1.2 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 121 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 147 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | % | ASTM D638 |
| Flexural Modulus | 8140 | MPa | ASTM D790 |
| Flexural Strength | 216 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 180 | 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 | 2.0E+12 | ohms · cm | ASTM D257 |
| Dielectric Strength | 20 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 4.00 | | ASTM D150 |
| Arc Resistance | 170 | 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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