

DESLON™ 6 DSC101ST

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC101ST is one of the Brands which made by Polyamide6 that alloyed with impact resistance. It provides good elasticity property, impact resistance.

Applications: DESLON™ DSC101ST is one of the most-used for excellent impact resistance and good injection molding property goods, such as Chair Back Bush etc.

| General Information | | | |
|-----------------------------------|-------------------------|-------------------|-------------|
| Features | High elasticity | | |
| | Impact resistance, high | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.06 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.6 - 2.0 | % | |
| Water Absorption (23°C, 24 hr) | 1.2 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 49.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 200 | % | ASTM D638 |
| Flexural Modulus | 1670 | MPa | ASTM D790 |
| Flexural Strength | 58.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 640 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 50.0 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 120 | °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 | 19 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 3.00 | | 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 | 230 - 240 | °C |
| Middle Temperature | 240 - 250 | °C |
| Front Temperature | 250 - 260 | °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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

