

# LIHAN® B801

Polyamide 6  
Nanjing Lihan Chemical Co., Ltd.

Message:

LIHAN® B801 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Asia Pacific. Primary characteristic: flame rated.

| General Information                             |                      |                   |                   |             |
|-------------------------------------------------|----------------------|-------------------|-------------------|-------------|
| Forms                                           |                      | Pellets           |                   |             |
| Processing Method                               |                      | Injection Molding |                   |             |
| Physical                                        | Dry                  | Conditioned       | Unit              | Test Method |
| Density                                         | 1.03                 | --                | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                               | 0.60 to 1.0          | --                | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 0.50 to 0.90         | --                | %                 | ISO 62      |
| Water Content                                   | 7.0 to 8.0           | --                | %                 | ISO 62      |
| Hardness                                        | Dry                  | Conditioned       | Unit              | Test Method |
| Rockwell Hardness<br>(R-Scale)                  | 100                  | --                |                   | ISO 2039-2  |
| Mechanical                                      | Dry                  | Conditioned       | Unit              | Test Method |
| Tensile Stress (Break)                          | 50.0                 | 37.0              | MPa               | ISO 527-2   |
| Tensile Strain (Break)                          | 35                   | 50                | %                 | ISO 527-2   |
| Flexural Modulus                                | 1500                 | 685               | MPa               | ISO 178     |
| Flexural Stress                                 | 55.0                 | --                | MPa               | ISO 178     |
| Impact                                          | Dry                  | Conditioned       | Unit              | Test Method |
| Notched Izod Impact<br>Strength                 | 80 kJ/m <sup>2</sup> | No Break          |                   | ISO 180     |
| Thermal                                         | Dry                  | Conditioned       | Unit              | Test Method |
| Heat Deflection<br>Temperature                  |                      |                   |                   |             |
| 0.45 MPa, Unannealed                            | 130                  | --                | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                             | 55.0                 | --                | °C                | ISO 75-2/A  |
| Melting Temperature                             | 220                  | --                | °C                | DSC         |
| Electrical                                      | Dry                  | Conditioned       | Unit              | Test Method |
| Surface Resistivity                             | 1.0E+13              | 1.0E+10           | ohms              | ASTM D257   |
| Dielectric Strength                             | 20                   | --                | kV/mm             | ASTM D149   |
| Flammability                                    | Dry                  | Conditioned       | Unit              | Test Method |
| Flame Rating (1.59 mm)                          | HB                   | --                |                   | UL 94       |
| Injection                                       | Dry                  | Unit              |                   |             |
| Processing (Melt) Temp                          | 270 to 290           |                   | °C                |             |
| Mold Temperature                                | 40.0 to 60.0         |                   | °C                |             |

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