

# LIHAN® A705H

Polyamide 66

Nanjing Lihan Chemical Co., Ltd.

## Message:

LIHAN® A705H is a Polyamide 66 (Nylon 66) 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                                         | 1.31             | --                | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                       | 15               | --                | g/10 min          | ISO 1133    |
| Molding Shrinkage                               | 0.40 to 0.80     | --                | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 0.60 to 1.0      | --                | %                 | ISO 62      |
| Water Content                                   | 5.5 to 6.5       | --                | %                 | ISO 62      |
| Hardness                                        | Dry              | Conditioned       | Unit              | Test Method |
| Rockwell Hardness<br>(R-Scale)                  | 120              | 115               |                   | ISO 2039-2  |
| Mechanical                                      | Dry              | Conditioned       | Unit              | Test Method |
| Tensile Stress (Break)                          | 155              | 100               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                          | 3.0              | 6.0               | %                 | ISO 527-2   |
| Flexural Modulus                                | 7000             | 5500              | MPa               | ISO 178     |
| Flexural Stress                                 | 215              | 175               | MPa               | ISO 178     |
| Impact                                          | Dry              | Conditioned       | Unit              | Test Method |
| Notched Izod Impact<br>Strength                 | 9.5              | 14                | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                         | Dry              | Conditioned       | Unit              | Test Method |
| Heat Deflection<br>Temperature                  |                  |                   |                   |             |
| 0.45 MPa, Unannealed                            | 258              | --                | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                             | 245              | --                | °C                | ISO 75-2/A  |
| Melting Temperature                             | 260              | --                | °C                | DSC         |
| CLTE - Flow                                     | 2.5E-5 to 3.5E-5 | 6.0E-5 to 7.0E-5  | cm/cm/°C          | ASTM D696   |
| Electrical                                      | Dry              | Conditioned       | Unit              | Test Method |
| Surface Resistivity                             | 1.0E+12          | 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                          | 265 to 295       |                   | °C                |             |

|                  |              |    |
|------------------|--------------|----|
| Mold Temperature | 80.0 to 90.0 | °C |
|------------------|--------------|----|

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