

# Tislamid® PA66 PA66 UNR FR HF

Polyamide 66

Tisan

## Message:

Tislamid® PA66 PA66 UNR FR HF is a Polyamide 66 (Nylon 66) material. It is available in Africa & Middle East or Europe for injection molding.

Important attributes of Tislamid® PA66 PA66 UNR FR HF are:

- Flame Rated
- Flame Retardant
- Halogen Free
- Heat Stabilizer

| General Information                                |                   |                   |              |
|----------------------------------------------------|-------------------|-------------------|--------------|
| Additive                                           | Flame Retardant   |                   |              |
|                                                    | Heat Stabilizer   |                   |              |
| Features                                           | Flame Retardant   |                   |              |
|                                                    | Halogen Free      |                   |              |
|                                                    | Heat Stabilized   |                   |              |
| Appearance                                         | Colors Available  |                   |              |
| Forms                                              | Pellets           |                   |              |
| Processing Method                                  | Injection Molding |                   |              |
| Physical                                           | Nominal Value     | Unit              | Test Method  |
| Density                                            | 1.18              | g/cm <sup>3</sup> | ISO 1183     |
| Molding Shrinkage                                  | 1.3               | %                 |              |
| Water Absorption (Equilibrium, 23°C, 50% RH)       | 2.2               | %                 | ISO 62       |
| Hardness                                           | Nominal Value     | Unit              | Test Method  |
| Shore Hardness (Shore D)                           | 81                |                   | ISO 868      |
| Mechanical                                         | Nominal Value     | Unit              | Test Method  |
| Tensile Stress                                     |                   |                   | ISO 527-2    |
| Yield                                              | 80.0              | MPa               |              |
| Break                                              | 78.0              | MPa               |              |
| Tensile Strain                                     |                   |                   | ISO 527-2    |
| Yield                                              | 2.2               | %                 |              |
| Break                                              | 2.2               | %                 |              |
| Impact                                             | Nominal Value     | Unit              | Test Method  |
| Notched Izod Impact Strength (23°C)                | 4.0               | kJ/m <sup>2</sup> | ISO 180/A    |
| Thermal                                            | Nominal Value     | Unit              | Test Method  |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 225               | °C                | ISO 75-2/Be  |
| Vicat Softening Temperature                        | 245               | °C                | ISO 306/B120 |

|                                        |               |      |                |
|----------------------------------------|---------------|------|----------------|
| Melting Temperature                    | 255 to 260    | °C   |                |
| Electrical                             | Nominal Value | Unit | Test Method    |
| Comparative Tracking Index (3.00 mm)   | 600           | V    | IEC 60112      |
| Flammability                           | Nominal Value | Unit | Test Method    |
| Flame Rating (1.60 mm)                 | V-0           |      | UL 94          |
| Glow Wire Flammability Index (3.00 mm) | 960           | °C   | IEC 60695-2-12 |
| Injection                              | Nominal Value | Unit |                |
| Drying Temperature                     | 110 to 120    | °C   |                |
| Drying Time                            | 3.0 to 4.0    | hr   |                |
| Rear Temperature                       | 260 to 280    | °C   |                |
| Middle Temperature                     | 260 to 280    | °C   |                |
| Front Temperature                      | 260 to 280    | °C   |                |
| Nozzle Temperature                     | 250 to 270    | °C   |                |
| Processing (Melt) Temp                 | 260 to 290    | °C   |                |
| Mold Temperature                       | 75.0 to 85.0  | °C   |                |

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