

# Staramide A28

Polyamide 66  
Eurostar Engineering Plastics

Message:  
Staramide A28 is an Unreinforced, Polyamide 66 Injection Molding Resin

| General Information                           |                   |                   |                 |
|-----------------------------------------------|-------------------|-------------------|-----------------|
| RoHS Compliance                               | RoHS Compliant    |                   |                 |
| Processing Method                             | Injection Molding |                   |                 |
| Physical                                      | Nominal Value     | Unit              | Test Method     |
| Density                                       | 1.14              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow <sup>1</sup>         | 1.6 to 2.0        | %                 | Internal Method |
| Water Absorption                              |                   |                   | ISO 62          |
| Saturation, 23°C                              | 8.5               | %                 |                 |
| Equilibrium, 23°C, 50% RH                     | 2.0               | %                 |                 |
| Mechanical                                    | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                               | 3000              | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield)                        | 85.0              | MPa               | ISO 527-2/50    |
| Tensile Strain                                |                   |                   | ISO 527-2/50    |
| Yield                                         | 3.8               | %                 |                 |
| Break                                         | > 20              | %                 |                 |
| Flexural Modulus <sup>2</sup>                 | 2800              | MPa               | ISO 178         |
| Flexural Stress                               | 105               | MPa               | ISO 178         |
| Impact                                        | Nominal Value     | Unit              | Test Method     |
| Charpy Notched Impact Strength <sup>3</sup>   |                   |                   | ISO 179/1eA     |
| -30°C                                         | 3.0               | kJ/m <sup>2</sup> |                 |
| 23°C                                          | 5.0               | kJ/m <sup>2</sup> |                 |
| Charpy Unnotched Impact Strength <sup>4</sup> |                   |                   | ISO 179/1eU     |
| -30°C                                         | > 100             | kJ/m <sup>2</sup> |                 |
| 23°C                                          | > 270             | kJ/m <sup>2</sup> |                 |
| Notched Izod Impact Strength <sup>5</sup>     |                   |                   | ISO 180/1A      |
| -40°C                                         | 3.0               | kJ/m <sup>2</sup> |                 |
| -30°C                                         | 3.0               | kJ/m <sup>2</sup> |                 |
| -20°C                                         | 4.0               | kJ/m <sup>2</sup> |                 |
| 23°C                                          | 5.0               | kJ/m <sup>2</sup> |                 |
| Thermal                                       | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature <sup>6</sup>      |                   |                   |                 |
| 0.45 MPa, Unannealed, 100 mm Span             | 210               | °C                | ISO 75-2/Be     |
| 1.8 MPa, Unannealed, 100 mm Span              | 90.0              | °C                | ISO 75-2/Ae     |
| Ball Pressure Test <sup>7</sup> (125°C)       | Pass              |                   | IEC 60695-10-2  |

| CLTE                                  |                 |          | ISO 11359-2 |
|---------------------------------------|-----------------|----------|-------------|
| Flow : 23 to 60°C                     | 8.0E-5          | cm/cm/°C |             |
| Transverse : 23 to 60°C               | 8.0E-5          | cm/cm/°C |             |
| Electrical                            | Nominal Value   | Unit     | Test Method |
| Surface Resistivity <sup>8</sup>      | > 1.0E+16       | ohms     | IEC 60093   |
| Volume Resistivity                    | > 1.0E+16       | ohms·cm  | IEC 60093   |
| Electric Strength (3.20 mm, in Oil)   | 16              | kV/mm    | IEC 60243-1 |
| Relative Permittivity                 |                 |          | IEC 60250   |
| 50 Hz                                 | 3.20            |          |             |
| 60 Hz                                 | 3.20            |          |             |
| 1 MHz                                 | 2.90            |          |             |
| Dissipation Factor                    |                 |          | IEC 60250   |
| 50 Hz                                 | 5.5E-3          |          |             |
| 60 Hz                                 | 5.5E-3          |          |             |
| 1 MHz                                 | 0.017           |          |             |
| Comparative Tracking Index            | 600             | V        | IEC 60112   |
| Flammability                          | Nominal Value   | Unit     | Test Method |
| Flame Rating (1.60 mm, Tested by E2P) | V-2             |          | UL 94       |
| Oxygen Index                          | 26              | %        | ISO 4589-2  |
| Injection                             | Nominal Value   | Unit     |             |
| Drying Temperature                    | 75.0 to 85.0    | °C       |             |
| Drying Time                           | 4.0 to 6.0      | hr       |             |
| Suggested Max Moisture                | 0.20            | %        |             |
| Rear Temperature                      | 260 to 270      | °C       |             |
| Middle Temperature                    | 270 to 280      | °C       |             |
| Front Temperature                     | 270 to 290      | °C       |             |
| Processing (Melt) Temp                | 270 to 290      | °C       |             |
| Mold Temperature                      | 60.0 to 90.0    | °C       |             |
| NOTE                                  |                 |          |             |
| 1.                                    | Tensile Bar     |          |             |
| 2.                                    | 2.0 mm/min      |          |             |
| 3.                                    | 80*10*4 sp=62mm |          |             |
| 4.                                    | 80*10*4 sp=62mm |          |             |
| 5.                                    | 80*10*4         |          |             |
| 6.                                    | 120*10*4        |          |             |
| 7.                                    | 125°C ±2°C      |          |             |
| 8.                                    | ROA             |          |             |

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