

# DOMAMID® 66G35H

Polyamide 66

DOMO Engineering Plastics SPA

## Message:

Polyamide 66, 35% glass fibre, heat stabilized, for injection moulding.

| General Information                                 |                                  |                   |             |
|-----------------------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                                       | E170540-225461                   |                   |             |
| Filler / Reinforcement                              | Glass Fiber,35% Filler by Weight |                   |             |
| Additive                                            | Heat Stabilizer                  |                   |             |
| Features                                            | Heat Stabilized                  |                   |             |
| Processing Method                                   | Injection Molding                |                   |             |
| Physical                                            | Nominal Value                    | Unit              | Test Method |
| Density                                             | 1.41                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow <sup>1</sup> (23°C, 72 hr) | 0.20 to 0.45                     | %                 | ISO 2577    |
| Water Absorption (Saturation, 23°C)                 | 5.0                              | %                 | ISO 62      |
| Hardness                                            | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                         | 120                              |                   | ISO 2039-2  |
| Mechanical                                          | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                                     | 10800                            | MPa               | ISO 527-2/1 |
| Tensile Stress (Break)                              | 190                              | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                              | 2.8                              | %                 | ISO 527-2/5 |
| Impact                                              | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)                 | 12                               | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                             | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature                         |                                  |                   |             |
| 0.45 MPa, Unannealed                                | 255                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                                 | 250                              | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                         | 255                              | °C                | ISO 306/B50 |
| Melting Temperature                                 | 258 to 262                       | °C                | ISO 11357-3 |
| Electrical                                          | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                                 | 1.0E+13                          | ohms              | IEC 60093   |
| Volume Resistivity                                  | 1.0E+15                          | ohms · cm         | IEC 60093   |
| Flammability                                        | Nominal Value                    | Unit              | Test Method |
| Burning Rate                                        | < 100                            | mm/min            | FMVSS 302   |
| Flame Rating (0.800 mm)                             | HB                               |                   | UL 94       |
| Injection                                           | Nominal Value                    | Unit              |             |
| Drying Temperature                                  | 75.0 to 85.0                     | °C                |             |
| Drying Time                                         | 4.0 to 6.0                       | hr                |             |
| Processing (Melt) Temp                              | 260 to 285                       | °C                |             |

|                  |             |    |
|------------------|-------------|----|
| Mold Temperature | 80.0 to 120 | °C |
| NOTE             |             |    |
| 1.               | 50% RH      |    |

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