

# DOMAMID® 6M40H

Polyamide 6

DOMO Engineering Plastics SPA

## Message:

Polyamide 6, 40% mineral filler, heat stab., for injection moulding.

| General Information                                 |                              |                   |             |
|-----------------------------------------------------|------------------------------|-------------------|-------------|
| Filler / Reinforcement                              | Mineral,40% Filler by Weight |                   |             |
| Additive                                            | Heat Stabilizer              |                   |             |
| Features                                            | Heat Stabilized              |                   |             |
| Processing Method                                   | Injection Molding            |                   |             |
| Physical                                            | Nominal Value                | Unit              | Test Method |
| Density                                             | 1.46                         | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow <sup>1</sup> (23°C, 72 hr) | 0.70 to 1.0                  | %                 | ISO 2577    |
| Hardness                                            | Nominal Value                | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                         | 115                          |                   | ISO 2039-2  |
| Mechanical                                          | Nominal Value                | Unit              | Test Method |
| Tensile Modulus                                     | 5200                         | MPa               | ISO 527-2/1 |
| Tensile Stress (Break)                              | 90.0                         | MPa               | ISO 527-2/5 |
| Impact                                              | Nominal Value                | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)                 | 6.0                          | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                             | Nominal Value                | Unit              | Test Method |
| Heat Deflection Temperature                         |                              |                   |             |
| 0.45 MPa, Unannealed                                | 195                          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                                 | 100                          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                         | 205                          | °C                | ISO 306/B50 |
| Melting Temperature                                 | 218 to 222                   | °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                              | 240 to 280                   | °C                |             |
| Mold Temperature                                    | 90.0 to 120                  | °C                |             |
| NOTE                                                |                              |                   |             |
| 1.                                                  | 50% RH                       |                   |             |

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