

# DOMAMID® 66G15

Polyamide 66

DOMO Engineering Plastics SPA

## Message:

Polyamide 66, 15% glass fiber reinforced, for injection moulding.

| General Information                     |                                  |                    |             |
|-----------------------------------------|----------------------------------|--------------------|-------------|
| Filler / Reinforcement                  | Glass Fiber,15% Filler by Weight |                    |             |
| Processing Method                       | Injection Molding                |                    |             |
| Physical                                | Nominal Value                    | Unit               | Test Method |
| Density                                 | 1.23                             | g/cm <sup>3</sup>  | ISO 1183    |
| Viscosity Number                        | 145                              | cm <sup>3</sup> /g | ISO 307     |
| Hardness                                | Nominal Value                    | Unit               | Test Method |
| Rockwell Hardness (R-Scale)             | 120                              |                    | ISO 2039-2  |
| Mechanical                              | Nominal Value                    | Unit               | Test Method |
| Tensile Modulus                         | 6000                             | MPa                | ISO 527-2/1 |
| Tensile Stress (Break)                  | 125                              | MPa                | ISO 527-2/5 |
| Tensile Strain (Break)                  | 2.5                              | %                  | ISO 527-2/5 |
| Flexural Modulus <sup>1</sup>           | 5100                             | MPa                | ISO 178     |
| Flexural Stress <sup>2</sup>            | 195                              | MPa                | ISO 178     |
| Impact                                  | Nominal Value                    | Unit               | Test Method |
| Charpy Notched Impact Strength (23°C)   | 6.0                              | kJ/m <sup>2</sup>  | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 40                               | kJ/m <sup>2</sup>  | ISO 179/1eU |
| Notched Izod Impact Strength (23°C)     | 6.0                              | kJ/m <sup>2</sup>  | ISO 180/1A  |
| Unnotched Izod Impact Strength (23°C)   | 35                               | kJ/m <sup>2</sup>  | ISO 180/1U  |
| Thermal                                 | Nominal Value                    | Unit               | Test Method |
| Heat Deflection Temperature             |                                  |                    |             |
| 0.45 MPa, Unannealed                    | 245                              | °C                 | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 230                              | °C                 | ISO 75-2/A  |
| Vicat Softening Temperature             | 245                              | °C                 | ISO 306/B50 |
| Melting Temperature                     | 260                              | °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                             | 2.0 to 4.0                       | hr                 |             |

|                        |             |    |
|------------------------|-------------|----|
| Processing (Melt) Temp | 270 to 290  | °C |
| Mold Temperature       | 90.0 to 110 | °C |
| NOTE                   |             |    |
| 1.                     | 2.0 mm/min  |    |
| 2.                     | 2.0 mm/min  |    |

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