

# DOMAMID® 66G30V0AH

Polyamide 66

DOMO Engineering Plastics SPA

## Message:

Polyamide 66, 30% glass fibre reinforced, flame retardant with halogen, heat stabilized, for injection moulding.

| General Information                                 |                                  |                   |             |
|-----------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                              | Glass Fiber,30% Filler by Weight |                   |             |
| Additive                                            | Flame Retardant                  |                   |             |
|                                                     | Heat Stabilizer                  |                   |             |
| Features                                            | Flame Retardant                  |                   |             |
|                                                     | Heat Stabilized                  |                   |             |
| Processing Method                                   | Injection Molding                |                   |             |
| Physical                                            | Nominal Value                    | Unit              | Test Method |
| Density                                             | 1.62                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow <sup>1</sup> (23°C, 72 hr) | 0.20 to 0.50                     | %                 | ISO 2577    |
| Hardness                                            | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                         | 120                              |                   | ISO 2039-2  |
| Mechanical                                          | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                                     | 11500                            | MPa               | ISO 527-2/1 |
| Tensile Stress (Break)                              | 140                              | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                              | 2.0                              | %                 | ISO 527-2/5 |
| Impact                                              | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)               | 12                               | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact Strength (23°C)                 | 11                               | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                             | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature                         |                                  |                   |             |
| 0.45 MPa, Unannealed                                | 250                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                                 | 240                              | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                         | 250                              | °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   |
| Comparative Tracking Index (Solution A)             | 400                              | V                 | IEC 60112   |
| Flammability                                        | Nominal Value                    | Unit              | Test Method |
| Burning Rate                                        | < 100                            | mm/min            | FMVSS 302   |
| Flame Rating (0.800 mm)                             | V-0                              |                   | UL 94       |

|                                                |               |      |                |
|------------------------------------------------|---------------|------|----------------|
| Glow Wire Flammability Index (1.00 to 3.00 mm) | 960           | °C   | IEC 60695-2-12 |
| 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 290    | °C   |                |
| Mold Temperature                               | 90.0          | °C   |                |
| NOTE                                           |               |      |                |
| 1.                                             | 50% RH        |      |                |

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