

# Tecomid® NB40 MF20 GR003 FY70

Polyamide 6  
Eurotec Engineering Plastics

Message:  
PA6, 20% mineral filled, flame retardant - halogen (RoHS compliant), grey RAL 7035

| General Information                          |                              |                   |                 |
|----------------------------------------------|------------------------------|-------------------|-----------------|
| Filler / Reinforcement                       | Mineral,20% Filler by Weight |                   |                 |
| Additive                                     | Flame Retardant              |                   |                 |
| Features                                     | Flame Retardant              |                   |                 |
| Agency Ratings                               | EC 1907/2006 (REACH)         |                   |                 |
| RoHS Compliance                              | RoHS Compliant               |                   |                 |
| Appearance                                   | Grey                         |                   |                 |
| Processing Method                            | Injection Molding            |                   |                 |
| Resin ID (ISO 1043)                          | PA6 MD20(17)                 |                   |                 |
| Physical                                     | Nominal Value                | Unit              | Test Method     |
| Density                                      | 1.45                         | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                            |                              |                   | Internal Method |
| Across Flow                                  | 0.90                         | %                 |                 |
| Flow                                         | 0.90                         | %                 |                 |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.7                          | %                 | ISO 62          |
| Moisture Content                             | < 0.20                       | %                 | ISO 15512       |
| Back Pressure                                | Low                          |                   |                 |
| Mechanical                                   | Nominal Value                | Unit              | Test Method     |
| Tensile Modulus (23°C)                       | 5500                         | MPa               | ISO 527-2       |
| Tensile Stress (Break, 23°C)                 | 60.0                         | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                 | 3.5                          | %                 | ISO 527-2       |
| Impact                                       | Nominal Value                | Unit              | Test Method     |
| Notched Izod Impact Strength                 |                              |                   | ISO 180/1A      |
| -30°C                                        | 4.0                          | kJ/m <sup>2</sup> |                 |
| 23°C                                         | 5.0                          | kJ/m <sup>2</sup> |                 |
| Thermal                                      | Nominal Value                | Unit              | Test Method     |
| Melting Temperature <sup>1</sup>             | 223                          | °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     |
| Flame Rating                                 |                              |                   | UL 94           |
| 0.750 mm                                     | V-2                          |                   |                 |

| 1.60 mm                                  | V-2           |      |                |
|------------------------------------------|---------------|------|----------------|
| Glow Wire Flammability Index (2.00 mm)   | 960           | °C   | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (2.00 mm) | 800           | °C   | IEC 60695-2-13 |
| Injection                                | Nominal Value | Unit |                |
| Drying Temperature                       | 80.0          | °C   |                |
| Drying Time                              | 2.0 to 4.0    | hr   |                |
| Hopper Temperature                       | 60.0 to 80.0  | °C   |                |
| Processing (Melt) Temp                   | 230 to 250    | °C   |                |
| Mold Temperature                         | 40.0 to 90.0  | °C   |                |
| Injection Rate                           | Moderate-Fast |      |                |
| Holding Pressure                         | 50.0 to 100   | MPa  |                |
| NOTE                                     |               |      |                |
| 1.                                       | 10 K/min      |      |                |

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