

# ARMAMID® PA NE 20-3AP (M)

Polyamide 6

Poly Plastic

## Message:

ARMAMID® PA NE 20-3AP (M) is a Polyamide 6 (Nylon 6) product. It is available in Europe.

| General Information                               |               |                   |
|---------------------------------------------------|---------------|-------------------|
| Physical                                          | Nominal Value | Unit              |
| Density                                           | 1.50          | g/cm <sup>3</sup> |
| Molding Shrinkage                                 | 0.30 to 0.50  | %                 |
| Water Absorption                                  |               |                   |
| 23°C, 24 hr                                       | 0.95          | %                 |
| Saturation, 23°C                                  | 6.6           | %                 |
| Equilibrium, 23°C, 50% RH                         | 2.1           | %                 |
| Mechanical                                        | Nominal Value | Unit              |
| Tensile Stress (Yield)                            | 125           | MPa               |
| Flexural Modulus (23°C)                           | 6200          | MPa               |
| Flexural Stress                                   | 160           | MPa               |
| Impact                                            | Nominal Value | Unit              |
| Charpy Unnotched Impact Strength                  |               |                   |
| -40°C                                             | 24            | kJ/m <sup>2</sup> |
| 20°C                                              | 32            | kJ/m <sup>2</sup> |
| Thermal                                           | Nominal Value | Unit              |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 190           | °C                |
| Melting Temperature                               | 219           | °C                |
| Electrical                                        | Nominal Value | Unit              |
| Surface Resistivity                               |               |                   |
| -- 1                                              | 1.0E+13       | ohms              |
| -- 2                                              | 1.0E+15       | ohms              |
| Volume Resistivity                                |               |                   |
| -- 3                                              | 1.0E+15       | ohms · cm         |
| -- 4                                              | 1.0E+17       | ohms · cm         |
| Electric Strength                                 |               |                   |
| -- 5                                              | 27 to 29      | kV/mm             |
| -- 6                                              | 22 to 24      | kV/mm             |
| Flammability                                      | Nominal Value | Unit              |
| Glow Wire Ignition Temperature                    | 960           | °C                |
| Additional Information                            |               | Nominal Value     |
| Burn Resistant Category (2.00 mm)                 |               | PX-0              |

|                        |            |
|------------------------|------------|
| Trekingostoykost (KIT) | 175/225 in |
| NOTE                   |            |
| 1.                     | Wet        |
| 2.                     | Dry        |
| 3.                     | Wet        |
| 4.                     | Dry        |
| 5.                     | Dry        |
| 6.                     | Wet        |

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