

# NYLEM® 6

Polyamide 6

EMAS Plastik San.Tic.AS.

Message:

Polyamide 6

| General Information                               |               |                    |             |
|---------------------------------------------------|---------------|--------------------|-------------|
| Physical                                          | Nominal Value | Unit               | Test Method |
| Density                                           | 1.12 to 1.14  | g/cm <sup>3</sup>  | ISO 1183    |
| Molding Shrinkage                                 | 1.0 to 1.1    | %                  |             |
| Viscosity Number                                  | 2.40 to 3.50  | cm <sup>3</sup> /g | ISO 307     |
| Hardness                                          | Nominal Value | Unit               | Test Method |
| Shore Hardness (Shore D)                          | 75 to 80      |                    | ISO 868     |
| Mechanical                                        | Nominal Value | Unit               | Test Method |
| Tensile Modulus                                   | 1400 to 2800  | MPa                | ISO 527-2   |
| Tensile Stress (Yield)                            | 40.0 to 70.0  | MPa                | ISO 527-2   |
| Tensile Strain (Break)                            | > 15          | %                  | ISO 527-2   |
| Impact                                            | Nominal Value | Unit               | Test Method |
| Notched Izod Impact Strength                      | > 8.0         | kJ/m <sup>2</sup>  | ISO 180/1A  |
| Thermal                                           | Nominal Value | Unit               | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 70.0          | °C                 | ISO 75-2/A  |
| Vicat Softening Temperature                       | 205           | °C                 | ISO 306/B   |
| Melting Temperature (DSC)                         | 220           | °C                 | ISO 3146    |

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