# Tarnamid® T-27 MSK

Polyamide 6

Grupa Azoty S.A.

## Message:

Tarnamid®T-27 MSK is a polyamide 6 (nylon 6) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.
Tarnamid®The main features of T-27 MSK are:
flame retardant/rated flame
chemical resistance
Flame Retardant
nucleation
high hardness

| General Information | |
|---|---|
| Additive | Nucleating agent |
| | slip agent |
| Features | Nucleated |
| | Low friction coefficient |
| | smoothness |
| | Optical |
| | Shock absorption |
| | Solvent resistance |
| | Impact resistance, high |
| | Fast molding cycle |
| | Good strength |
| | Good wear resistance |
| | Good chemical resistance |
| | alkali resistance |
| | Fatigue resistance |
| | Heat resistance, high |
| | acid resistance |
| | Compliance of Food Exposure |
| | High hardness |
| | Medium hardness |
| | Flame retardancy |
| Forms | Particle |
| Processing Method | Injection molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.14 | -- | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (275°C/5.0 kg) | 100 | -- | g/10 min | ISO 1133 |

| | | | | |
|---|---|---|---|---|
| Molding Shrinkage | 1.4 | 1.6 | % | ISO 294-4 |
| Water Absorption (23°C, 24 hr) | 1.6 | -- | % | ISO 62 |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Ball Indentation Hardness (H 358/30) | 150 | 75.0 | MPa | ISO 2039-1 |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 3500 | -- | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 85.0 | 45.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 50 | 200 | % | ISO 527-2 |
| Flexural Stress | 88.0 | -- | MPa | ISO 178 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | 4.5 kJ/m$^2$ | No Break | | ISO 179/1eA |
| Charpy Unnotched Impact Strength | No Break | -- | | ISO 179/1eU |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 60.0 | 50.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 200 | -- | °C | ISO 306/B50 |
| **Flammability** | **Dry** | **Conditioned** | | **Test Method** |
| Flame Rating (3.20 mm) | V-2 | -- | | UL 94 |

**Additional Information**

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Glow Wire Resistance, PN-EN-60695-2-1, 2mm: 750Note: All electrical properties were tested in accordance with the IEC test standard.

| Injection | Dry | Unit |
|---|---|---|
| Drying Temperature | 80.0 - 100 | °C |
| Drying Time | 2.0 - 4.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Processing (Melt) Temp | 230 - 260 | °C |
| Mold Temperature | 60.0 - 80.0 | °C |
| Injection Pressure | 80.0 - 130 | MPa |
| Injection Rate | Fast | |



Recommended distributors for this material

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