# Tarnoform® 200

Acetal (POM) Copolymer

Grupa Azoty S.A.

## Message:

Tarnoform® 200 - there is high viscosity standard grade for extrusion and also injection- moulding, exhibit low mould deposit.

| General Information | |
|---|---|
| Features | Viscosity, High |
| Uses | Bar<br>Pipe fittings<br>Thick wall fittings (parts)<br>Sheet |
| Appearance | Black<br>Available colors<br>Natural color |
| Forms | Particles |
| Processing Method | Extrusion<br>Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.41 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.5 | g/10 min | ISO 1133 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 2.20 | cm³/10min | ISO 1133 |
| Molding Shrinkage - Flow (2.00 mm) | 2.0 | % | ISO 294-4 |
| Water Absorption | | | ISO 62 |
| Saturated, 23°C | 0.80 | % | ISO 62 |
| Equilibrium, 23°C, 50% RH | 0.20 | % | ISO 62 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Ball Indentation Hardness (H 358/30) | 140 | MPa | ISO 2039-1 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 2600 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield) | 60.0 | MPa | ISO 527-2/50 |
| Tensile Strain | | | ISO 527-2/50 |
| Yield | 14 | % | ISO 527-2/50 |
| Fracture | 50 | % | ISO 527-2/50 |
| Flexural Modulus [1] | 2400 | MPa | ISO 178 |
| Flexural Stress [2] | 60.0 | MPa | ISO 178 |

| Impact | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -- | 8.5 | kJ/m² | ISO 179/1eA |
| -30°C | 7.0 | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -- | No Break | | ISO 179/1eU |
| -30°C | 200 | kJ/m² | ISO 179/1eU |
| Notched Izod Impact | 8.0 | kJ/m² | ISO 180 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 105 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 150 | °C | ISO 306/B |
| Melting Temperature | 167 | °C | ISO 11357-3 |
| CLTE - Flow (23 to 55°C) | 1.1E-4 | cm/cm/°C | ISO 11359-2 |
| Limit of Temperature - a few hours operation | 100 | °C | |
| Burning Rate | | mm/min | FMVSS 302 |
| ISO Type | POM-K, M-GNR, 01-02 | | ISO 1874 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+14 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | ohms·cm | IEC 60093 |
| Dielectric Strength (2.00 mm) | 25 | kV/mm | IEC 60243-1 |
| Dielectric Constant (1 Hz) | 3.80 | | IEC 60250 |
| Comparative Tracking Index (Solution A) | 600 | V | IEC 60112 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (3.20 mm) | HB | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 100 - 120 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Suggested Max Moisture | < 0.10 | % | |
| Suggested Max Regrind | 10 | % | |
| Processing (Melt) Temp | 180 - 230 | °C | |
| Mold Temperature | 60.0 - 120 | °C | |
| Injection Pressure | 60.0 - 120 | MPa | |
| Injection Rate | Slow-Moderate | | |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 180 - 200 | °C | |
| **Extrusion instructions** | | | |
| Slow | | | |
| **NOTE** | | | |
| 1. | 2.0 mm/min | | |
| 2. | 2.0 mm/min | | |

## Recommended distributors for this material

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