# TECACOMP® POM ID blue 1055303

POM-X | Ensinger Compounds

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melt flow index, MFI | **8.3** | g/10min | ISO 1133 |
| Temperature | **190** | °C | - |
| Load | **2.16** | kg | - |
| Molding shrinkage, parallel | **2.9** | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | **2.3** | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **3200** | MPa | ISO 527 |
| Tensile Strength | **50** | MPa | ISO 527 |
| Strain at break | **26** | % | ISO 527 |
| Flexural modulus, 23°C | **3100** | MPa | ISO 178 |
| Flexural strength | **84** | MPa | ISO 178 |
| Charpy impact strength, +23°C | **81** | kJ/m² | ISO 179/1eU |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature, 10°C/min | **167** | °C | ISO 11357-1/-3 |
| Glass transition temperature, 10°C/min | **-60** | °C | ISO 11357-1/-2 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1600** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **100 - 110** | °C | - |
| Pre-drying - Time | **2 - 3** | h | - |
| Processing humidity | **≤0.1** | % | - |
| Melt temperature | **180 - 220** | °C | - |
| Mold temperature | **60 - 120** | °C | - |
| Zone 1 | **170 - 220** | °C | - |

## Characteristics

**Processing**
Injection Molding

**Delivery form**
Pellets

**Features**
Metal Detectable, Tribologic Grade, Copolymer

**Chemical Resistance**
General Chemical Resistance, Hydrolytically Stable, Radiation Resistance

**Certifications**
Food contact, Food approval 10/2011, Food approval FDA 21 CFR

**Regional Availability**
North America, Europe, Asia Pacific, South and Central America