

**TARNOFORM® 700 CE**

POM

Celanese

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>40</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>190</b>	°C	-
Load	<b>2.16</b>	kg	-
Molding shrinkage, parallel	<b>1.9</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>1.8</b>	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	<b>3000</b>	MPa	ISO 527
Yield stress	<b>65</b>	MPa	ISO 527
Yield strain	<b>7</b>	%	ISO 527
Flexural modulus, 23°C	<b>2700</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>4.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>3.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness	<b>148</b>	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>166</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>106</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>110</b>	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	<b>1E12</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E14</b>	Ohm	IEC 62631-3-2
Electric strength	<b>25</b>	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Density	<b>1410</b>	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>190 - 220</b>	°C	-
Mold temperature	<b>80 - 120</b>	°C	-
Zone 1	<b>170 - 180</b>	°C	-
Zone 2	<b>180 - 190</b>	°C	-
Zone 3	<b>190 - 200</b>	°C	-
Zone 4	<b>190 - 210</b>	°C	-
Nozzle temperature	<b>190 - 210</b>	°C	-
Back pressure	<b>&lt;4</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Certifications**

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