TARNOFORM® 300 CE

POM — Celanese

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**8**	cm³/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**2.0**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.9**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2800**	MPa	ISO 527
Yield stress	**62**	MPa	ISO 527
Yield strain	**10**	%	ISO 527
Flexural modulus, 23°C	**2500**	MPa	ISO 178
Charpy impact strength, +23°C	**200**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**5.5**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**144**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**166**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**104**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**155**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**120**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**120**	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1E12**	Ohm*m	IEC 62631-3-1
Surface resistivity	**1E15**	Ohm	IEC 62631-3-2
Electric strength	**25**	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Density	**1410**	kg/m³	ISO 1183

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

Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Calandering

Delivery form

Pellets

Applications

General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Certifications

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