

Tarnoform® 200 G1

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 200 G1 - there is high viscosity grade modified with 5% addition of special additives causes improved tribological properties especially reducing wear.

General Information			
Additive	Unspecified additive (5%)		
Features	Good wear resistance		
	Viscosity, High		
Uses	Thick wall fittings (parts)		
	Sheet		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particles		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	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	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	120	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	12	%	ISO 527-2/50
Fracture	50	%	ISO 527-2/50
Flexural Modulus ¹	2200	MPa	ISO 178
Flexural Stress ²	19.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	90	kJ/m ²	ISO 179/1eU
Notched Izod Impact	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B
Melting Temperature	167	°C	ISO 11357-3
Limit of Temperature - a few hours operation	100	°C	
Burning Rate		mm/min	FMVSS 302
ISO Type	POM-K, M-GNS, 01-002		ISO 1874
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		

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