

Tarnoform® 200 AF

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 200 AF there is high viscosity acetal copolymer resin modified with addition of micron-sized PTFE fibres.

General Information			
Filler / Reinforcement	PTFE fiber		
Features	Low friction coefficient		
	Good wear resistance		
	Viscosity, High		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particles		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.7	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)	110	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	11	%	ISO 527-2/50
Fracture	17	%	ISO 527-2/50
Flexural Modulus ¹	2000	MPa	ISO 178
Flexural Stress ²	54.0	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	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact	3.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°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, SF20		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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