

Tarnoform® 300 TF4

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 300 TF4 there is injection-moulding grade, modified with PTFE improving tribological characteristics, such as extremely low coefficient of friction and wear.

General Information			
Additive	PTFE Lubricant		
Features	Good Wear Resistance		
	Low Friction		
Uses	Bearings		
	Gears		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	2.0	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.65	%	
Equilibrium, 23°C, 50% RH	0.20	%	
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)	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	15	%	
Flexural Modulus ¹	2150	MPa	ISO 178
Flexural Stress ²	50.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	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
CLTE - Flow (23 to 55°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Limit of Temperature - a few hours operation	100	°C	
Burning Rate	< 100	mm/min	FMVSS 302
ISO Type	POM-K, M-GNS, 02-002		ISO 1874
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	23	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.70		IEC 60250
Dissipation Factor (1 Hz)	0.011		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.10	%	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	180 to 230	°C	
Mold Temperature	60.0 to 120	°C	
Injection Pressure	60.0 to 120	MPa	
Injection Rate	Slow-Moderate		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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