

Tarnoform® 400 UV

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 400 UV is the is the easy flowing, fast cycling injection-moulding grade, modified with carbon black improving weather stability. This grade is available only in black colour.

General Information			
Additive	Carbon Black		
Features	Fast Molding Cycle		
	Good Flow		
	Good UV Resistance		
	Good Weather Resistance		
Uses	Automotive Applications		
	Thin-walled Parts		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	10.5	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	2.0	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	145	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	45	%	
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress ²	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	150	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	4.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
Vicat Softening Temperature	145	°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-GLR, 04-002		ISO 1874
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	25	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.90		IEC 60250
Dissipation Factor (1 MHz)	8.5E-3		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	Moderate-Fast		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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