

Tarnoform® 500 LS

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 500 LS is the very easy flowing, fast cycling injection-moulding grade, good chemical resistance, modified with soluble light stabilisers improving light resistance.

General Information			
Additive	UV Stabilizer		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Flow		
	Good UV Resistance		
Uses	Automotive Applications		
	Thin-walled Parts		
Appearance	Black		
	Colors Available		
	Natural Color		
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)	27	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	23.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	2.0	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Yield)	63.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	20	%	

Flexural Modulus ¹	2550	MPa	ISO 178
Flexural Stress ²	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	5.5	kJ/m ²	
-30°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
--	140	kJ/m ²	
-30°C	110	kJ/m ²	
Notched Izod Impact Strength	5.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Vicat Softening Temperature	150	°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-GNL, 05-002		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
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 Re grind	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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