

Tarnoform® 300 MF4

Acetal (POM) Copolymer

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Message:

Tarnoform® 300 MF4 there is 20% milled glass fibres reinforced injection-moulding grade with increased strength and stiffness. Shows better surface properties and higher melt flow index but lower mechanical properties compared to e.g. Tarnoform® 300 GF4.

General Information			
Filler / Reinforcement	Milled Glass Fiber,20% Filler by Weight		
Features	Good Stiffness		
	Good Strength		
	High Flow		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.17	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	205	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ¹	5500	MPa	ISO 178
Flexural Stress ²	105	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25	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)	150	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/B
Melting Temperature	167	°C	ISO 11357-3
Limit of Temperature - a few hours operation	100	°C	
Burning Rate	< 100	mm/min	FMVSS 302
ISO Type	POM-K, M-GNR, 03-003, GF20		ISO 1874
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	25	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	4.20		IEC 60250
Dissipation Factor (1 Hz)	9.5E-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 Re grind	10	%	
Processing (Melt) Temp	180 to 230	°C	
Mold Temperature	80.0 to 110	°C	
Injection Pressure	80.0 to 110	MPa	
Injection Rate	Slow-Moderate		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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