Tarnoform® 300 EC1

Acetal (POM) Copolymer

Grupa Azoty S.A.

Message:

Tarnoform® 300 EC1 - electrically conductive injection moulding grade. Available only in black colour.

General Information			
Features	Electrically Conductive		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.38	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	0.700	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
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	2100	MPa	ISO 527-2/1
Tensile Stress (Yield)	47.0	MPa	ISO 527-2/50
Tensile Strain (Break)	11	%	ISO 527-2/50
Flexural Modulus [1]	1800	MPa	ISO 178
Flexural Stress [2]	47.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	70	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	5.5	kJ/m²	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
Limit of Temperature - a few hours operation	100	°C	
Burning Rate	< 100	mm/min	FMVSS 302
ISO Type	POM-K, M-GRY, 01-001		ISO 1874
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3	ohms	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	< 0.10	%
Suggested Max Regrind	10	%
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 80.0	°C
Injection Pressure	80.0 to 110	MPa
Injection Rate	Slow-Moderate	

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min

Recommended distributors for this material

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