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MATERIAL DATA SHEET

LG/ 02.2010 EDITION 5

TARNOFORM® 300 GF5

PROPERTIES	STANDARD	TEST	UNIT	TYPICAL DATA
	ISO	CONDITIONS		
PHYSICAL				
Melting point; DSC	11357-1-3	10°C/min.	°C	167
Density	1183	-	g/cm ³	1,59
Melt volume-flow rate (MVR)	1133	190°C/2,16kg	cm ³ /10min	3,5
Melt mass-flow rate (MFR)	1133	190°C/2,16kg	g/10min	4
Humidity absorption	62	23°C/50%RH	%	0,17
Water absorption	62	23°C/sat.	%	0,8
Linear shrinkage II / ⊥	294-4	60x60x2	%	0,8 / 1,4
MECHANICAL				
Tensile strength	527-1,-2	5mm/min	MPa	120
Elongation at break	527-1,-2	5mm/min	%	2
Tensile E-modulus	527-1,-2	1mm/min	MPa	9300
Flexural strength	178	2mm/min	MPa	160
Flexural modulus	178	2mm/min	MPa	8300
Charpy impact strength	179-1	1eU	kJ/m ²	30
Charpy impact strength (-30°C)	179-1	1eU	kJ/m ²	-
Charpy notched impact strength	179-1	1eA	kJ/m ²	4,5
Charpy notched impact strength (-30°C)	179-1	1eA	kJ/m ²	-
Izod notched impact strength	180		kJ/m ²	5
Ball indentation hardness	2039-1	358 N	MPa	220
THERMAL				
Vicat softening point	306	50N	°C	160
Heat deflection temperature	75-1,-2	1,8 MPa	°C	160
Coefficient of linear thermal expansion II / \perp	11359-1/-2	23°C - 55°C	E-4/°C	0,4 / 0,8
Temperature index TI	IEC 60216	20000 h	°C	-
		5000 h	°C	-
Limit of temperature, at few hours operation	-	-	°C	100
FLAMMABILITY				
Flammability	UL94	3,2 mm	Class	HB
Burning Rate	US-FMVSS 302	thickness d≥1mm	mm/min	< 100
ELECTRICAL				
Surface resistivity	IEC 60093	-	Ω	10 ¹³
Volume resistivity	IEC 60093	-	Ωxcm	10 ¹⁴
Dielectric strength	IEC 60243-1	2mm	kV/mm	25
Dielectric constant	IEC 60250	1MHz	-	4,2
Dissipation factor	IEC 60250	1MHz	-	95E-4
Comparative tracking index CTI	IEC 60112	solution A	V	600
Product nomenclature acc. ISO 9988-1: POM-	-K, POM-K, M-GNF	R, 02-003, GF26		

All data for natural and black coloured material (unless indicated otherwise).

Properties measured at 23°C (unless indicated otherwise).



TARNOTORM® (POM)
ACETAL COPOLYMER

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TARNOFORM® 300 GF5

CHARACTERISTICS Tarnoform® 300 GF5 there is 26% glass fibres reinforced injection-moulding grade with high

strength and stiffness and with reduced shrinkage and coefficient of linear thermal

expansion.

APLICATIONS For injection-moulding parts and tools requiring increased strength and stiffness. Used for

automotive, machine parts, appliances, household articles, electronic, building and furnishes

industries, etc.

PROCESSING Injection moulding:

Melt temperature: 180-230°C, Injection pressure: 80-110 MPa, Injection speed: slow - medium, Mould temperature: 80-110°C.

DRYING Tarnoform® 300 GF5 is delivered as ready for processing, without need of drying. If product

has been exposed to a damp atmosphere or has been in contact with water, it has to be dried at 100℃ to 120℃ in circulating air oven for about 2-4 hours. Processing moisture

content should be : < 0,10 %.

COLOUR Standards colours: natural, black, other colours on request.

RECYCLING Clean, milled, not contained degradated polymer, postproduction wastes could be reused

after mixing with fresh plastic. The addition level of milled scraps may reach up to 10%.

It is recommended to use pre-dry milled scraps.

PACKAGING Available in PE bags containing 25 kg of granules and next put to 1000 kg pallets

Available in octabins (big-bag containers) containing up to 1000 kg of granules