

MATERIAL DATA SHEET

Ver. 3/RS/26.6.2006

TARNOFORM 300

Properties	Test method ISO	Test conditions	Unit	Value
Physical:				
Density	1183		g/cm ³	1,41
Melt flow index	1133	190°C; 2,16 kg	g/10 min	9,6
Melt volume index			cm ³ /10 min	8,5
Mechanical:				
Yield stress	527		MPa	62
Elongation at yield	527		%	12
Tensile strength	527		MPa	55
Elongation at break	527		%	48
Nominal elongation at break	527		%	37
Tensile modulus	527		MPa	2680
Flexural strength	178		MPa	64
Flexural modulus	178		MPa	2390
Notched impact strength (Charpy)	179	1 J, 1eA	kJ/m ²	6,9
Impact strength (Charpy)	179	15 J, 1eU	kJ/m ²	192
Notched impact strength (Izod)	180	1 J, 1A	kJ/m ²	8,0
Impact strength (Izod)	180	11 J	kJ/m ²	
Rockwell hardness	2039-2	scale R	-	116
Ball indentation hardness	2039-1	358 N	MPa	161
Shore hardness	868	scale D	-	78
Thermal:				
Melting point; DSC	3146	10°C/min.	°C	167
Heat deflection temperature	75	1,8 MPa	°C	120
Vicat softening temperature	306	50 N	°C	146
Specific heat			kJ/kg·K	
Flammability	UL94	3,2 mm	-	HB
Maximal service temperature			°C	
Electrical:				
Relative permittivity	IEC 60250	1 MHz	-	3,9
Volume resistivity	IEC 60093		Ω·cm	7 x 10 ¹⁴
Surface resistivity	IEC 60093		Ω	2 x 10 ¹⁶
Dissipation factor	IEC 60250	1 MHz	-	85 x 10 ⁻⁴
Dielectric strength	IEC 60243		kV/mm	25
Comparative tracking index	IEC 112		CTI	600
Arc resistance	ASTM D495		mm	1,9
Processing:				
Shrinkage	ISO 294-4	60 x 60 x 2	% // ⊥	2,76/2,86
		60 x 60 x 4	% // ⊥	3,28/3,19

All data for natural coloured material measured at 23°C (unless indicated otherwise).

The above information is based on our present state of knowledge and is intended to provide general information on our product (s) and its application (s). Therefore it should not be construed as a guarantee of specific properties of the product (s) described herein, and/or its suitability for specific application. The quality of the product (s) is guaranteed in our General Conditions of Sale, and/or Sales Confirmation.

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TARNOFORM 300

CHARACTERISTICS	Tarnoform 300 - is the basic, fast cycling injection-moulding grade.			
APPLICATIONS	Injection moulding of engineering parts, most of applications could be covered by this grade. Extrusion of small diameter, thin walled tubes.			
PROCESSING		Injection moulding	Extrusion	
	Melt temperature:	180-230°C,	Melt temperature	180-200°C
	Injection pressure:	80-110 MPa,	Extrusion rate	low
	Injection speed:	medium to high		
	Mould temperature:	60-120°C		
DRYING	Tarnoform 300 is delivered as ready for processing, without need of drying. If drying necessary there is recommended to use dehumidifier dryer and temperature should not exceed 100°C. Processing moisture content should be : < 0,10 %,			
COLOURS	Natural, milky-white.			
RECYCLING	Clean, milled post-production wastes could be recycled after mixing with fresh plastic. The amount of milled plastic added to virgin plastic is controlled depending on final product quality requirements, it may reach up to 10 %. Final product properties depend rather more on quality of recycled or milled plastic then on its share. Attention shall be paid not to use milled scraps having more than 0,2 % of water			
PACKAGING	in PE bags containing 25 kg of granules and combined onto 1000 kg pallets in octabins (octatainers) containing 1000 kg of granules			

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