



**DATA SHEET**

**TAROLOX 10 G4**

PBT glass fiber reinforced 20%, good flow, good surface finish, good mechanical and thermal properties, good dimensional stability.

Available: all colors, heat stabilized (H), release agent (W).

<b>Pre-heater:</b>	<b>DRYING - conditions</b> 120 - 130°C - 3 h	<b>Melt temperature:</b>	240 - 260°C
<b>Dryer:</b>	100°C - 1÷2 h	<b>Mould temperature:</b>	80-110°C
		<b>Rate of injection:</b>	MEDIUM - HIGH

PROPERTY	METHOD	DIN	ISO	ASTM	unit	VALUE	condition
<b>ELECTRICAL</b>							
Volume Resistivity		5348		D257	Ohm cm	>10exp(15)	
Tracking Resistance ( CTI - Method A )	IEC 112				Volt	500	
Tracking Resistance ( CTI - Method B )	IEC 112				Volt	200M	
Electric Strength				D149	kV/mm	23	2 mm
<b>PHYSICAL</b>							
Melt Flow Index		5373	R292	D123	g/10'	20	250°C - 2,16 Kg
Reinforcing Charges				D258	%	20	750°C - 1 h
Granule Humidity	TARO 002				%	<0,05	
Density ( 23 °C )		5347	R118	D792	Mg/m^3	1,45-1,47	
Water Absorption ( 24h / 23°C )		5349	R62	D570	%	0,05	
Water Absorption at Saturation		5349	R62	D570	%	0,25	
Mould Shrinkage (Parallel)				D955	%	0,4-0,6	
Mould Shrinkage (Normal)				D955	%	0,6-1	
Melting Point			R121	D211	°C	220-225	
<b>MECHANICAL</b>							
IZOD Notched Impact		-	180	D256	J/m	60	-20°C - 3,2 mm
IZOD Notched Impact		-	180	D256	J/m	70	+23°C - 3,2 mm
CHARPY Notched Impact		5345	R179	D256	kJ/m^2	6,5	+23°C - 6x4x50 mm
Tensile Modulus		5345	R527	D638	N/mm^2	7000	
Flexural Modulus		5345	R178	D790	N/mm^2	6500	
Elongation at Break		5345	R527	D638	%	3	
Flexural Break Strength		5345	R178	D790	N/mm^2	155	
Tensile Break Strength		5345	R527	D638	N/mm^2	105	
ROCKWELL Hardness				D785	scala R	120	
<b>FLAMMABILITY</b>							
Oxigen index				D286	%	20	
Flame Behaviour ( 3,2 mm )	UL 94					HB	
Flame Behaviour ( 1,6 mm )	UL 94					HB	
Flame Behaviour ( 0,97 mm )	UL 94					HB	
Glow Wire Test ( 2 mm )	IEC 695-2-1				°C	650	
<b>THERMAL</b>							
VICAT Temperature ( 1 kg )		5346	R306	D152	°C	216	50°C / h
VICAT Temperature ( 5 kg )		5346	R306	D152	°C	210	50°C / h
Heat Deflection Temperature ( 1,82 N/mm^2 )		5346	R75	D648	°C	205	120°C / h

These value are for natural color only. Colorant or other additives may alter some or all of these property. The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits nor used alone as the basis of design.



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PROPERTY	METHOD	DIN	ISO	ASTM	unit	VALUE	condition
Ball Pressure Test	VDE 0470				°C	<b>205</b>	
Continuous service temperature (20.000 h)	IEC 216				°C	<b>90 (130 H)</b>	
Continuous service temperature (short term)	IEC 216				°C	<b>130 (180 H)</b>	
Coefficient of linear thermal expansion		5375		D696	K <sup>-1</sup>	<b>3,5x10exp(-5)</b>	-30°C /+30°C
Heat Deflection Temperature ( 0,45 N/mm <sup>2</sup> )		5346	R75	D648	°C	<b>218</b>	120°C / h

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