



DATA SHEET

TAROLOX 10 X0

PBT self extinguishing UL94 V0, good flow, good mechanical and thermal properties.

UL94 V0 approved all colors at 0,97 mm. UL746B approved.

Available: all colors, heat stabilized (H), release agent (W), without PBDE/PBDF.

	DRYING - conditions	Melt temperature:	230 - 250°C
Pre-heater:	120 - 130°C - 3 h	Mould temperature:	60 - 80°C
Dryer:	100°C - 1÷2 h	Rate of injection:	HIGH

PROPERTY	METHOD	DIN	ISO	ASTM	unit	VALUE	condition
ELECTRICAL							
Volume Resistivity		5348		D257	Ohm cm	>10exp(15)	
Tracking Resistance (CTI - Method A)	IEC 112				Volt	275	
Tracking Resistance (CTI - Method B)	IEC 112				Volt	175M	
Electric Strength				D149	kV/mm	22	2 mm
PHYSICAL							
Granule Humidity	TARO 002				%	<0,05	
Density (23 °C)		5347	R118	D792	Mg/m ³	1,41-1,43	
Water Absorption (24h / 23°C)		5349	R62	D570	%	0,06	
Water Absorption at Saturation		5349	R62	D570	%	0,35	
Mould Shrinkage (Parallel)				D955	%	1,5-2,0	
Mould Shrinkage (Normal)				D955	%	1,5-2,0	
Melting Point			R121	D211	°C	220-225	
MECHANICAL							
IZOD Notched Impact		-	180	D256	J/m	50	+23°C - 3,2 mm
IZOD Notched Impact		-	180	D256	J/m	40	-20°C - 3,2 mm
CHARPY Notched Impact		5345	R179	D256	kJ/m ²	3,5	+23°C - 6x4x50 mm
CHARPY Unnotched Impact		5345	R179	D256	kJ/m ²	45	+23°C - 6x4x50 mm
CHARPY Unnotched Impact		5345	R179	D256	kJ/m ²	40	-20°C - 6x4x50 mm
Tensile Modulus		5345	R527	D638	N/mm ²	2900	
Flexural Modulus		5345	R178	D790	N/mm ²	2700	
Elongation at Break		5345	R527	D638	%	>50	
Flexural Break Strength		5345	R178	D790	N/mm ²	80	
Tensile Break Strength		5345	R527	D638	N/mm ²	55	
Tensile Yield Strength		5345	R527	D638	N/mm ²	60	
Flexural Yield Strength		5345	R178	D790	N/mm ²	100	
ROCKWELL Hardness				D785	scala R	120	
FLAMMABILITY							
Oxygen index				D286	%	28	
Flame Behaviour (3,2 mm)	UL 94					V0	YC
Flame Behaviour (1,6 mm)	UL 94					V0	YC
Flame Behaviour (0,97 mm)	UL 94					V0	YC
Flame Behaviour (0,75 mm)	UL 94					V0	not YC
Glow Wire Test (2 mm)	IEC 695-2-1				°C	960	
THERMAL							

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.



DATA SHEET

TAROLOX 10 X0

PBT self extinguishing UL94 V0, good flow, good mechanical and thermal properties.

UL94 V0 approved all colors at 0,97 mm. UL746B approved.
 Available: all colors, heat stabilized (H), release agent (W), without PBDE/PBDF.

DRYING - conditions		Melt temperature:	230 - 250°C
Pre-heater:	120 - 130°C - 3 h	Mould temperature:	60 - 80°C
Dryer:	100°C - 1÷2 h	Rate of injection:	HIGH

PROPERTY	METHOD	DIN	ISO	ASTM	unit	VALUE	condition
VICAT Temperature (1 kg)		5346	R306	D152	°C	205	50°C / h
VICAT Temperature (5 kg)		5346	R306	D152	°C	190	50°C / h
Heat Deflection Temperature (1,82 N/mm ²)		5346	R75	D648	°C	75	120°C / h
Ball Pressure Test	VDE 0470				°C	165	
Continuous service temperature (20.000 h)	IEC 216				°C	90 (120 H)	
Continuous service temperature (short term)	IEC 216				°C	130 (160 H)	
Continuous service temperature	UL 94 746B				°C	75	
Coefficient of linear thermal expansion		5375		D696	K ⁻¹	9x10exp(-5)	-30°C /+30°C

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.