



DATA SHEET

TAROLOX 10 H G6 X0

PBT medium viscosity 30% glass fibres reinforced heat stabilized, flame retardant UL94 V0, good flow, good surface appearance, good mechanical properties, very high dimensional stability.

UL94 V0 approved all colours at 0,97 mm - NC,BK at 0,75 mm. UL 746 B approved - UL 746 A (HAI-HWI-CTI) approved. IMQ T190 approved.

Available: all colours, release agent (W).

	DRYING - conditions	Melt temperature:	230 - 270°C
Pre-heater:	120 - 130°C / 3 h	Mould temperature:	80 - 110°C
Dryer:	100°C / 1÷2 h	Rate of injection:	MEDIUM - HIGH

PROPERTY	METHOD	unit	VALUE	condition
ELECTRICAL				
Volume Resistivity	IEC 60093	Ohm cm	>10exp(15)	
Dielectric Constant	IEC 60250	-	3,7	
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	250	UL746 A CTI class 2
Electric Strength	IEC 60243-1	kV/mm	26	2 mm
PHYSICAL				
Reinforcing Charges	ISO 3451	%	30	850°C - 1 h
Granule Humidity	TARO 002	%	<0,05	
Density (23 °C)	ISO 1183	g/cm ³	1,64-1,66	
Water Absorption (24h / 23°C)	ISO 62	%	0,05	
Water Absorption at Saturation	ISO 62	%	0,22	
Mould Shrinkage (Parallel)	Internal method	%	0,2-0,4	
Mould Shrinkage (Normal)	Internal method	%	0,4-0,6	
Melting temperature (DSC)	ISO 11357	°C	220-225	
MECHANICAL				
IZOD Notched Impact	ASTM D256	J/m	80	+23°C
Tensile Modulus	ISO 527-1,2	Mpa	10000	Speed 1 mm/min
Flexural Modulus	ISO 178	Mpa	8500	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	2	Speed 50 mm/min
Flexural Break Strength	ISO 178	Mpa	200	Speed 1 mm/min
Tensile Break Strength	ISO 527-1,2	Mpa	125	Speed 50 mm/min
CHARPY Notched Impact (+23°C)	ISO 179/1eA	KJ/m ²	7	
FLAMMABILITY				
Oxigen index	ASTM D2863	%	31	
Flame Behaviour (1,5 mm)	UL94	Class	V0	
Flame Behaviour (0,97 mm)	UL94	Class	V0	UL approved all colours
Flame Behaviour (0,75 mm)	UL94	Class	V0	UL approved NC, BK
Flame Behaviour (3,0 mm)	UL94	Class	V0	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	960	
Glow Wire Ignition Temperature - GWIT (1 mm)	IEC 60695-2-13	°C	825	
HWI (3,0 mm)	UL746 A	PLC	2	UL approved
HWI (1,5 mm)	UL746 A	PLC	3	UL approved
HWI (0,75 mm)	UL746 A	PLC	3	UL approved
HAI (3,0 mm)	UL746 A	PLC	0	UL approved

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	unit	VALUE	condition
HAI (1,5 mm)	UL746 A	PLC	0	UL approved
HAI (0,75 mm)	UL746 A	PLC	0	UL approved
HWI (0,97 mm)	UL746 A	PLC	3	UL approved
HAI (0,97 mm)	UL746 A	PLC	0	UL approved
THERMAL				
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	215	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	210	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	215	
Continuous service temperature (20.000 h)	IEC 60216	°C	140	
Continuous service temperature (short term)	IEC 60216	°C	165	
Continuous service temperature	IEC 60216	°C	130	
Coefficient of linear thermal expansion	ISO 11359-1,-2	K ⁻¹	2,7x10exp(-5)	-30°C /+30°C
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	215	120°C / h

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