



PRODUCT INFORMATION

**TAROLOX 10 G5 X0**

PBT medium viscosity 20% glass fibres reinforced, flame retardant UL94 V0, good flow, good surface appearance, good mechanical and thermal properties, high dimensional stability.

**ISO short Form** ISO 1043: PBT-GF25 FR(17)  
**UL file** Pellets  
 E143048

**Key Features**

- Good impact - stiffness balance
- Light natural colour
- Designed for injection moulding applications
- Glass fibres reinforced
- Flame retardant
- Good flowability
- Good dimensional stability

**Availability**

- W: lubricated
- LP: laser printable
- L: UV stabilized
- H: heat stabilized
- All colours

**Compliance**

- UL94 V0 approved all colours at 0,97 mm. UL746 B approved. IMQ T180 approved for lampholders.

**Process**

- INJECTION MOULDING

**Application**

- Power tools
- Household
- Electronic
- Electrical
- Connectors
- Building
- Automotive

Property	Method	Unit	Value	Condition	State
<b>ELECTRICAL</b>					
Volume Resistivity	IEC 60093	Ohm cm	>10exp(15)		
Dielectric Strength	IEC 60243-1	kV/mm	24	2 mm	
Dissipation Factor Frequency	IEC 60250	-	0,020		
Dielectric Constant	IEC 60250	-	3,6		
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	200 / 250		

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Tracking Resistance (CTI - Method B)	IEC 60112	Volt	175M
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**PHYSICAL**

Density (+23°C)	ISO 1183	g/cm <sup>3</sup>	1,60-1,62	
Filler content	ISO 3451	%	25	850°C - 1 h
Granule Humidity	Internal method	%	<0,05	
Water Absorption (24h / +23°C)	ISO 62	%	0,04	
Water Absorption at Saturation	ISO 62	%	0,24	
Mould Shrinkage (Parallel)	Internal method	%	0,35-0,55	
Mould Shrinkage (Normal)	Internal method	%	0,5-0,8	
Melting temperature (DSC)	ISO 11357	°C	220-225	

**MECHANICAL**

Tensile Modulus	ISO 527-1,2	MPa	9000	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	2,8	Speed 50 mm/min
Tensile Break Strength	ISO 527-1,2	MPa	118	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	8000	Speed 1 mm/min
Flexural Break Strength	ISO 178	MPa	180	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	72	+23°C
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	6,5	

**THERMAL**

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	215	50°C / h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	212	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	208	120°C / h
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	215	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	215	
Continuous service temperature (20.000 h)	UL746 B	°C	90 (130 H)	
Continuous service temperature (short term)	UL746 B	°C	130 (160 H)	

**FLAMMABILITY**



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Flame Behaviour (0,97 mm)	UL94	Class	V0	UL approved
Flame Behaviour (1,6 mm)	UL94	Class	V0	
Flame Behaviour (3,2 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	775	
Oxygen index	ASTM D2863	%	31	