



PRODUCT INFORMATION

TAROLON 3000

Polycarbonate medium high viscosity, very good mechanical properties.

ISO short Form ISO 1043: PC Pellets

Key Features

- Designed for injection moulding applications

Availability

- W: lubricated
- L: UV stabilized
- H: heat stabilized
- All colours

Process

- INJECTION MOULDING

Application

- Electronic
- Electrical

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Volume Resistivity	IEC 60093	Ohm cm	>10exp(15)		
Dielectric Strength	IEC 60243-1	kV/mm	20	2 mm	
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	225		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,20		
Water Absorption (24h / +23°C)	ISO 62	%	0,12		
Water Absorption at Saturation	ISO 62	%	0,35		
Mould Shrinkage (Parallel)	Internal method	%	0,5-0,7		
Mould Shrinkage (Normal)	Internal method	%	0,5-0,7		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	10	300°C - 1,2 kg	
MECHANICAL					
Tensile Modulus	ISO 527-1,2	MPa	2300	Speed 1 mm/min	

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Tensile Yield Strength	ISO 527-1,2	MPa	70	Speed 50 mm/min
Elongation at Break	ISO 527-1,2	%	100	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	2500	Speed 1 mm/min
Flexural Max Strength	ISO 178	MPa	88	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	750	+23°C
IZOD Notched Impact	ISO 180/1A	kJ/m ²	35	+23°C

THERMAL

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	152	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	140	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	125	
Continuous service temperature (20.000 h)	UL746 B	°C	120	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K ⁻¹	7x10exp(-5)	-30°C /+30°C
Thermal Conductivity	ISO 8302	W/(m K)	0,2	+23°C

FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	V2	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	850	
Oxygen index	ASTM D2863	%	26	

INJECTION MOULDING

	Value
Pre heating Temperature	120 - 130°C / 3 h
Drying Temperature	100 - 110°C / 1-2 h
Melt Temperature	270 - 300°C
Mould	90 - 110°C
Injection Rate	HIGH

Notes During processing, a dehumidifying hopper dryer is recommended at a temperature of 60 to 80°C.