PRODUCT INFORMATION

TAROLON 3000 Y0

Polycarbonate medium high viscosity, halogen free flame retardant UL94 V0.

ISO short ISO 1043: PC FR
Form Pellets

Key Features

- Halogen free
- Flame retardant
- Good flowability
- Antimony trioxide free

Availability

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

Process

- INJECTION MOULDING

Application

- Electronic
- Electrical
- Automotive

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
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	
Elongation at Break	ISO 527-1,2	%	90	Speed 50 mm/min	

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Flexural Modulus	ISO 178	MPa	2500	Speed 2 mm/min
IZOD Notched Impact (+23°C)	ASTM D256	J/m	650	
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m^2	30	
THERMAL				
Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	145	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	130	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	125	
FLAMMABILITY				
Flame Behaviour (1,6 mm)	UL94	Class	V2	
Flame Behaviour (3,2 mm)	UL94	Class	V0	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	960	
Oxigen index	ASTM D2863	%	35	

INJECTION MOULDING	**Value**
Drying Temperature (Desiccant Dryer)	120°C
Drying Time (Desiccant Dryer)	2 - 4 hours
Suggested Max Moisture	0,02%
Suggested Max Regrind	< 15%
Melt Temperature	270 - 300°C
Feed Temperature	60 - 80°C
Rear Temperature	260 - 280°C
Middle Temperature	270 - 290°C
Front Temperature	280 - 295°C
Nozzle Temperature	285 - 300°C
Mould Temperature	80 - 120°C
Injection Rate	Fast

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