

TAROLOY 50

Polycarbonate + PBT

Taro Plast S.p.A.

Message:

TAROLOY 50 is a Polycarbonate + PBT (PC+PBT) product. It can be processed by injection molding and is available in Europe.

Characteristics include:

- Flame Rated
- Impact Resistant
- Chemical Resistant
- Good Dimensional Stability

General Information			
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Strength		
	Low Temperature Impact Resistance		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	30	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.80 to 1.1	%	
Flow	0.80 to 1.1	%	
Water Absorption			ISO 62
23°C, 24 hr	0.10	%	
Saturation, 23°C	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	55.0	MPa	
Break	50.0	MPa	
Tensile Strain (Break)	120	%	ISO 527-2/50
Flexural Modulus ¹	2100	MPa	ISO 178
Flexural Stress ²	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Continuous Use Temperature ³	90.0	°C	IEC 60216
Vicat Softening Temperature	170	°C	ISO 306/A50
Ball Pressure Test (135°C)	Pass		IEC 60695-10-2
CLTE - Flow (-30 to 30°C)	9.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength (3.00 mm)	18	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Pre-heater	110 to 120	°C	
Drying Time			
--	2.0	hr	
Pre-heater	2.0 to 4.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Moderate		
NOTE			
1.	1.0 mm/min		
2.	1.0 mm/min		
3.	20000 hrs		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

