

TAROLON 2500 W G2 X0

Polycarbonate

Taro Plast S.p.A.

Message:

Polycarbonate medium viscosity, glass fibre reinforced 10%, self extinguishing UL94 V0.
UL 94 V0 approved all colors at 0,97 mm. UL746B approved.
Available: all colours.

General Information			
UL YellowCard	E143048-223249		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Medium Viscosity		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26 to 1.28	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.30 to 0.50	%	
Across Flow	0.50 to 0.70	%	
Water Absorption			
23°C, 24 hr	0.080	%	ASTM D570, ISO 62
Saturation	0.25	%	ASTM D570
Saturation, 23°C	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	75.0	MPa	
Break	65.0	MPa	
Tensile Elongation (Break)	8.0	%	ASTM D638, ISO 527-2
Flexural Modulus	3700	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	125	MPa	ISO 178
-- ²	110	MPa	ISO 178
Yield	125	MPa	ASTM D790
Break	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	12	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ⁴			ISO 179, ASTM D256

-20°C	60	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	120	J/m	
23°C, 3.20 mm	150	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	75.0	°C	UL 746B
-- ⁵	130	°C	IEC 60216
-- ⁶	150	°C	IEC 60216
Vicat Softening Temperature			
--	152	°C	ASTM D1525, ISO 306/A50 8 ⁷
--	146	°C	ASTM D1525, ISO 306/B50 9 ⁸
Ball Pressure Test (135°C)	Pass		VDE 0470
CLTE - Flow (-30 to 30°C)	3.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	24	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution A	175	V	
Solution B	100	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.970 mm)	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	35	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	100 to 110	°C	
Pre-heater	120 to 130	°C	
Drying Time			
--	1.0 to 2.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	250 to 290	°C	
Mold Temperature	100 to 120	°C	
Injection Rate	Fast		
NOTE			
1.	Yield		
2.	Break		
3.	6x4x50 mm		

4.	6x4x50 mm
5.	20000 hrs
6.	Short Term
7.	Rate A (50°C/h), Loading 1 (10 N)
8.	Rate A (50°C/h), Loading 2 (50 N)

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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

