

TAROLON 2500 W G4 X0

Polycarbonate

Taro Plast S.p.A.

Message:

Polycarbonate medium viscosity, glass fiber reinforced 20%, self extinguishing UL94 V0, good mechanical properties also at high temperature, very good dimensional stability.
UL 94 V0 approved all colors at 0,97 mm. UL746B approved.
Available: all colors.

General Information			
UL YellowCard	E143048-223249		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Medium Heat Resistance		
	Medium Viscosity		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35 to 1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.35	%	
Across Flow	0.50 to 0.75	%	
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	6000	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	80.0	MPa	
Break	75.0	MPa	
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus	5600	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	120	MPa	ISO 178
Break	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	10	kJ/m ²	ASTM D256, ISO 179

Charpy Unnotched Impact Strength ³ (23°C)	44	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	130	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	148	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	75.0	°C	UL 746B
-- ⁴	130	°C	IEC 60216
Vicat Softening Temperature	156	°C	ISO 306/A50, ASTM D1525 ⁵
Ball Pressure Test (125°C)	Pass		VDE 0470
CLTE - Flow (-30 to 30°C)	3.0E-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 (Solution A)	150	V	IEC 60112
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	36	%	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.	Break		
2.	6x4x50 mm		
3.	6x4x50 mm		
4.	20000 hrs		
5.	Rate A (50°C/h), Loading 1 (10 N)		

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