

TAROLON 2500 W G3 X0

Polycarbonate

Taro Plast S.p.A.

Message:

Polycarbonate medium viscosity, 15% glass fiber reinforced, self extinguishing UL 94 V0, good stiffness and mechanical properties.
UL 94 V0 approved all colors at 0,97 mm. UL746B approved.
Available: all colors, release agent (W).

General Information			
UL YellowCard	E143048-223249		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Mold Release		
Features	Good Mold Release		
	Good Stiffness		
	Medium Viscosity		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 to 1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.40	%	
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	4400	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	75.0	MPa	
Break	70.0	MPa	
Tensile Elongation (Break)	6.0	%	ASTM D638, ISO 527-2
Flexural Modulus	4600	MPa	ASTM D790, ISO 178
Flexural Stress			
-- 1	130	MPa	ISO 178
-- 2	114	MPa	ISO 178
Yield	130	MPa	ASTM D790
Break	114	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 (23°C)	70	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	120	J/m	ISO 180, ASTM D256
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
Vicat Softening Temperature	152	°C	ISO 306/A50, ASTM D1525 ⁶
Ball Pressure Test (125°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 (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.	Yield		
2.	Break		
3.	6x4x50 mm		
4.	6x4x50 mm		
5.	20000 hrs		
6.	Rate A (50°C/h), Loading 1 (10 N)		

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