TAROLON 2500 G3

Polycarbonate

Taro Plast S.p.A.

Message:

Polycarbonate medium viscosity, 15% glass fiber reinforced.
Available: all colors, UV stabilized (L), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Mold Release UV Stabilizer		
Features	Good Mold Release Good UV Resistance Medium Viscosity		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28 to 1.30	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
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	4600	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	80.0	MPa	
Break	80.0	MPa	
Tensile Elongation (Break)	5.0	%	ASTM D638, ISO 527-2
Flexural Modulus	4500	MPa	ASTM D790, ISO 178
Flexural Stress			
-- [1]	125	MPa	ISO 178
-- [2]	120	MPa	ISO 178
Yield	125	MPa	ASTM D790
Break	120	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength [3] (23°C)	10	kJ/m²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	110	J/m	ISO 180, ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	142	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature [4]	130	°C	IEC 60216
Vicat Softening Temperature	153	°C	ISO 306/A50, ASTM D1525 [5]
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+16	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	22	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	150	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.20 mm)	V-1		UL 94
Glow Wire Ignition Temperature (2.00 mm)	850	°C	IEC 60695-2-13
Oxygen Index	30	%	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	260 to 300	°C	
Mold Temperature	100 to 120	°C	
Injection Rate	Fast		
NOTE			
1.	Yield		
2.	Break		
3.	6x4x50 mm		
4.	20000 hrs		
5.	Rate A (50°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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