

# TARODUR 100 G2

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

## Message:

ABS 13% glass fiber reinforced, good dimensional stability and good impact.

Available: all colors, UV stabilized (L), heat stabilized (H).

General Information			
Filler / Reinforcement	Glass Fiber, 13% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good UV Resistance		
	Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13 to 1.15	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.15 to 0.35	%	
Across Flow	0.35 to 0.85	%	
Water Absorption			
23°C, 24 hr	0.10	%	ASTM D570, ISO 62
Saturation	0.20	%	ASTM D570
Saturation, 23°C	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	68.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.5	%	ASTM D638, ISO 527-2
Flexural Modulus	4800	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	70	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	92.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature <sup>1</sup>	75.0	°C	IEC 60216
Vicat Softening Temperature			
--	105	°C	ASTM D1525, ISO 306/A50 3 <sup>2</sup>
--	102	°C	ASTM D1525, ISO 306/B50 4 <sup>3</sup>
CLTE - Flow (-30 to 30°C)	4.5E-5	cm/cm/°C	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Glow Wire Ignition Temperature (2.00 mm)	550	°C	IEC 60695-2-13
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature			
--	70.0 to 80.0	°C	
Pre-heater	70.0 to 80.0	°C	
Drying Time			
--	1.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Rate	Moderate-Fast		
<b>NOTE</b>			
1.	20000 hrs		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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