

TARODUR 100

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

Message:

ABS standard grade for injection moulding, good flow and gloss.
Available: all colors, UV-stabilized (L), heat stabilized (H) and antistatic (AS).

General Information			
UL YellowCard	E143048-223233		
Additive	Antistatic		
	Heat Stabilizer		
	UV Stabilizer		
Features	Antistatic		
	Good Flow		
	Good UV Resistance		
	Heat Stabilized		
	Medium Gloss		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ASTM D1238, ISO 292
Molding Shrinkage			ASTM D955
Flow	0.60 to 0.70	%	
Across Flow	0.60 to 0.70	%	
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570, ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	48.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	25	%	ASTM D638, ISO 527-2
Flexural Modulus	2400	MPa	ASTM D790, ISO 178
Flexural Stress			
-- 1	66.0	MPa	ISO 178
Yield	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ² (23°C)	13	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)	85.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature	60.0	°C	UL 746B
Vicat Softening Temperature			
--	105	°C	ASTM D1525, ISO 306/A50 5 ³
--	95.0	°C	ASTM D1525, ISO 306/B50 6 ⁴
Ball Pressure Test (75°C)	Pass		VDE 0470
CLTE - Flow (-30 to 30°C)	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, All Colors)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	550	°C	IEC 60695-2-13
Oxygen Index	< 21	%	ASTM D2863
Injection	Nominal Value	Unit	
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	210 to 240	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Rate	Fast		
NOTE			
1.	Yield		
2.	6x4x50 mm		
3.	Rate A (50°C/h), Loading 1 (10 N)		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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