

TARODUR 100 X0

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

Message:

ABS self extinguishing UL94 V0, good mechanical, flow and surface finishing.
UL94 V0 approuved @ 1,64 mm. UL746B approved.
Available: all colors, heat stabilized (H).

General Information			
UL YellowCard	E143048-223234		
Additive	Heat Stabilizer		
Features	Good Flow		
	Good Surface Finish		
	Heat Stabilized		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.50 to 0.70	%	
Across Flow	0.50 to 0.70	%	
Water Absorption			
23°C, 24 hr	0.30	%	ASTM D570, ISO 62
Saturation	0.70	%	ASTM D570
Saturation, 23°C	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	46.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	8.0	%	ASTM D638, ISO 527-2
Flexural Modulus	2600	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	70.0	MPa	ISO 178
Yield	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	12	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)	80.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature ³	60.0	°C	IEC 60216
Vicat Softening Temperature			
--	95.0	°C	ASTM D1525, ISO 306/A50 6 ⁴
--	90.0	°C	ASTM D1525, ISO 306/B50 7 ⁵
Ball Pressure Test (75°C)	Pass		VDE 0470
CLTE - Flow (-30 to 30°C)	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Comparative Tracking Index (Solution A)	> 400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	27	%	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	Moderate		
NOTE			
1.	Yield		
2.	6x4x50 mm		
3.	20000 hrs		
4.	Rate A (50°C/h), Loading 1 (10 N)		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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