

TARODUR 100 MTR

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

Message:

ABS with higher thermal resistance. Very good combination of mechanical and thermal properties.

General Information			
Features	Heat resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.50 - 0.70	%	Internal method
Flow direction	0.50 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	47.0	MPa	ISO 527-2/50
Tensile Strain (Break)	35	%	ISO 527-2/50
Flexural Modulus ¹	2500	MPa	ISO 178
Flexural Stress ²	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Notched Izod Impact (23°C)	20.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Continuous Use Temperature ⁴	75.0	°C	IEC 60216
Vicat Softening Temperature			
--	112	°C	ISO 306/A50
--	105	°C	ISO 306/B50
Ball Pressure Test (90°C)	Pass		IEC 60695-10-2
CLTE - Flow (-30 to 30°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	< 21	%	ASTM D2863

Injection	Nominal Value	Unit
Drying Temperature	70.0 - 80.0	°C
Drying Time	1.0	hr
Processing (Melt) Temp	210 - 240	°C
Mold Temperature	50.0 - 80.0	°C
Injection Rate	Fast	
Injection instructions		
Pre-heat Temperature: 70 to 80°CPre-heat Time: 3 hrs		
NOTE		
1.	1.0 mm/min	
2.	1.0 mm/min	
3.	120°C/hr	
4.	20,000 hr	

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