

Toyolac™ 500 322 U ABS

TECHNICAL DATA

Product Description

High rigidity

Uses

- Camera Applications
- Cell Phones
- Computer Components
- Construction Applications
- Cosmetics
- Furniture
- Industrial Applications
- Kitchenware
- Television Housings
- Toys
- White Goods & Small Appliances
- Windows & Doors
- Writing Instruments

Processing Method

- Injection Molding

ISO Designation

- >ABS<

Type

- ABS/Standard

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage ¹	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	59	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	12	%	ISO 527-2
Flexural Modulus (23°C)	2690	MPa	ISO 178
Flexural Stress (23°C)	89	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	116		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	85	°C	ISO 75-2/A
Vicat Softening Temperature	95	°C	
CLTE - Flow	6.9	cm ³ -5/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

Notes

¹ 23°C/50%RH

Toray Industries, Inc.

