

Toyolac™ 450Y X10 U ABS

TECHNICAL DATA

Product Description

High heat resistant

- Uses**
- Automotive Applications
 - Automotive Interior Parts
 - Kitchenware
 - Switches
 - White Goods & Small Appliances

- Processing Method**
- Injection Molding

- ISO Designation**
- >ABS<

- Type**
- ABS/Heat resistant

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.07	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage ¹	0.50 to 0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	53	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	10	%	ISO 527-2
Flexural Modulus (23°C)	2360	MPa	ISO 178
Flexural Stress (23°C)	80	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16.0	kJ/m²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	111		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	95	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

Notes

¹ 23°C/50%RH

Toray Industries, Inc.

