

Toyolac™ 450Y X10 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High heat resistant

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Heat Resistance		
Uses	• Automotive Applications • Automotive Interior Parts	• Kitchenware • Switches	• White Goods & Small Appliances
Processing Method	• Injection Molding		
ISO Designation	• >ABS<		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage ²	0.50 to 0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	7690	psi	ISO 527-2
Tensile Strain (Break, 73°F)	10	%	ISO 527-2
Flexural Modulus (73°F)	342000	psi	ISO 178
Flexural Stress (73°F)	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	ft-lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	111		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	203	°F	ISO 75-2/A
Vicat Softening Temperature	221	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C/50%RH

