

Toyolac™ 450Y X10 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High heat resistant

General

Features	<ul style="list-style-type: none"> High Heat Resistance 		
Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Interior Parts 	<ul style="list-style-type: none"> Kitchenware Switches 	<ul style="list-style-type: none"> White Goods & Small Appliances
Processing Method	<ul style="list-style-type: none"> Injection Molding 		
ISO Designation	<ul style="list-style-type: none"> >ABS< 		

Properties¹

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			ISO 75-2/A
264 psi, Unannealed	203	°F	
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