



Toyolac™ 100 322 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High impact

General

Features	<ul style="list-style-type: none"> High Impact Resistance 		
Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Exterior Parts Automotive Interior Parts Cell Phones 	<ul style="list-style-type: none"> Computer Components Construction Applications Cosmetics Furniture 	<ul style="list-style-type: none"> Kitchenware Toys White Goods & Small Appliances Windows & Doors
Processing Method	<ul style="list-style-type: none"> Extrusion 	<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)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage ²	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	7830	psi	ISO 527-2
Tensile Strain (Break, 73°F)	13	%	ISO 527-2
Flexural Modulus (73°F)	341000	psi	ISO 178
Flexural Stress (73°F)	11300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	9.5	ft-lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	113		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	181	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	
CLTE - Flow	4.1E-5	in/in/°F	ASTM D696
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