



Toyolac™ 700 314 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

Medium 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 Camera Applications Cell Phones Computer Components Construction Applications Cosmetics Furniture Kitchenware Toys White Goods & Small Appliances Windows & Doors
Processing Method	<ul style="list-style-type: none"> Injection Molding
ISO Designation	<ul style="list-style-type: none"> >ABS<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	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)	18	%	ISO 527-2
Flexural Modulus (73°F)	368000	psi	ISO 178
Flexural Stress (73°F)	11700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	8.1	ft-lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	115		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	180	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	
CLTE - Flow	3.9E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	HB		UL 94