

Toyolac™ 500 322 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High rigidity

General

Features	<ul style="list-style-type: none"> High Strength
Uses	<ul style="list-style-type: none"> Camera Applications Cell Phones Computer Components Construction Applications Cosmetics Furniture Industrial Applications Kitchenware Television Housings Toys White Goods & Small Appliances Windows & Doors Writing Instruments
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)	20	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)	8560	psi	ISO 527-2
Tensile Strain (Break, 73°F)	12	%	ISO 527-2
Flexural Modulus (73°F)	390000	psi	ISO 178
Flexural Stress (73°F)	12900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft-lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	116		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	185	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	
CLTE - Flow	3.8E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94