

Toyolac™ 500 322 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High rigidity

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Strength		
Uses	• 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	• Injection Molding		
ISO Designation	• >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

Notes

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

² 23°C/50%RH

