

Toyolac™ TP10 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

Standard

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Antistatic		
Features	• Antistatic		
Uses	• Automotive Interior Parts • Camera Applications • Furniture	• Office Automation Equipment • Packaging • Printer	• Structural Parts • Television Housings • White Goods & Small Appliances
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)	26	g/10 min	ISO 1133
Molding Shrinkage ²	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	7690	psi	ISO 527-2
Tensile Strain (Break, 73°F)	13	%	ISO 527-2
Flexural Modulus (73°F)	319000	psi	ISO 178
Flexural Stress (73°F)	10900	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)	109		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	203	°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Electrostatic Voltage ³	660	V	Internal Method
Half-life of Electrostatic Voltage Decay ³	0.4	sec	Internal Method
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

³ 23°C, 50%, 24hr

