

Toyolac™ 100G-10

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

GF10%

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• High Strength
Uses	• Automotive Applications • Bathroom Accessories • Automotive Interior Parts • General Purpose
Processing Method	• Injection Molding
ISO Designation	• >ABS-GF10<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	24	g/10 min	ISO 1133
Molding Shrinkage ²	0.20 to 0.40	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	11700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	609000	psi	ISO 178
Flexural Stress (73°F)	18400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	118		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	
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

