

Toyolac™ ASG-20

Toray Industries, Inc. - *Styrene Acrylonitrile*

General Information

Product Description

GF20%

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• High Strength		
Uses	• Automotive Applications	• Automotive Interior Parts	• White Goods & Small Appliances
Processing Method	• Injection Molding		
ISO Designation	• >SAN-GF20<		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	27	g/10 min	ISO 1133
Molding Shrinkage ²	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (73°F)	17100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.0	%	ISO 527-2
Flexural Modulus (73°F)	1.12E+6	psi	ISO 178
Flexural Stress (73°F)	24700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.4	ft-lb/in ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	123		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	226	°F	ISO 75-2/A
Vicat Softening Temperature	212 to 221	°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

