

Toyolac™ ASG-20 SAN

TECHNICAL DATA

Product Description

GF20%

Uses • Automotive Applications • Automotive Interior Parts • White Goods & Small Appliances

Processing Method • Injection Molding

ISO Designation • >SAN-GF20<

Type • GF reinforced AS Resin

ASTM & ISO Properties

	Nominal Value	Unit	Test Method
Physical			
Density (23°C)	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 ¹	0.10 to 0.30	%	Internal Method
Mechanical			
Tensile Strength (23°C)	118	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	7700	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Impact			
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Hardness			
Rockwell Hardness (R-Scale, 23°C)	123		ISO 2039-2
Thermal			
Deflection Temperature Under Load 1.8 MPa, Unannealed	108	°C	ISO 75-2/A
Vicat Softening Temperature	100 to 105	°C	
Flammability			
Flame Rating (1.5 mm)	HB		UL 94

Notes

¹ 23°C/50%RH

Toray Industries, Inc.

