

GLAMIDE™ TY-231GC

TOYOBO MC Corporation - Polyamide 66

General Information

Product Description

GF Reinforced, Blow Moldable

General

Material Status	• Commercial: Active
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Uses	• Automotive Applications • Automotive Exterior Parts • General Purpose • Industrial Applications
Forms	• Pellets
Processing Method	• Blow Molding
Part Marking Code (ISO 11469)	• >PA66-GF20<
Revision Date	• 9/10/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.70	%	
Across Flow : 2.00 mm	1.0	%	
Water Absorption (24 hr, 23°C)	1.7	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	140	MPa	ISO 527
Tensile Strain (Break)	3.1	%	ISO 527-2
Flexural Modulus	6400	MPa	ISO 178
Flexural Strength	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60250

Processing Information

Injection	Unit
Drying Temperature	100 to 120 °C
Drying Time	3.0 to 5.0 hr
Hopper Temperature	270 to 290 °C
Middle Temperature	280 to 300 °C
Front Temperature	280 to 300 °C
Nozzle Temperature	280 to 300 °C
Mold Temperature	80 to 100 °C

