

GLAMIDE™ TY-181GC

TOYOBO MC Corporation - Polyamide 6

General Information

Product Description

GF Reinforced

General

Material Status	• Commercial: Active
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight
Features	• High Impact Resistance
Uses	• Automotive Applications • Automotive Exterior Parts • General Purpose • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA6-GF43<
Revision Date	• 9/5/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.20	%	
Across Flow : 2.00 mm	0.80	%	
Water Absorption (24 hr, 23°C)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	140	MPa	ISO 527
Tensile Elongation (Break)	2.0	%	ISO 527
Flexural Modulus	10400	MPa	ISO 178
Flexural Strength	225	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	13	kJ/m ²	
23°C	17	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
CLTE - Flow	2.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60250



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Injection		Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 5.0	hr
Middle Temperature	270 to 290	°C
Front Temperature	270 to 290	°C
Nozzle Temperature	270 to 290	°C
Mold Temperature	80 to 110	°C

Notes

¹ 100×100×2mmt, film gate

