

GLAMIDE™ TY-593GV-U
TOYOBO MC Corporation - Polyamide 6T

General Information			
Product Description			
GF Reinforced, Flame Retardant			
General			
Material Status	• Commercial: Active		
Filler / Reinforcement	• Glass Fiber, 55% Filler by Weight		
Features	• Flame Retardant		
Uses	• Automotive Applications • Automotive Exterior Parts	• General Purpose • Industrial Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PA6T-GF55FR<		
Revision Date	• 9/10/2025		
ASTM & ISO Properties			
Physical	Nominal Value	Unit	Test Method
Density	1.84	g/cm³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.20	%	
Across Flow : 2.00 mm	0.60	%	
Water Absorption (24 hr, 23°C)	0.20	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	190	MPa	ISO 527
Tensile Elongation (Break)	1.1	%	ISO 527
Flexural Modulus	20500	MPa	ISO 178
Flexural Strength	310	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	290	°C	ISO 75-2/B
1.8 MPa, Unannealed	280	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94



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Processing Information		
Injection		Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 5.0	hr
Middle Temperature	305 to 330	°C
Front Temperature	305 to 330	°C
Nozzle Temperature	305 to 330	°C
Mold Temperature	120 to 150	°C

Notes

¹ 100×100×2mmt, film gate

