

**GLAMIDE® TY-181 GC**

(PA\*+TPE)-GF43

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	170 / 115	MPa	ASTM D 638
Compressive Strength	140 / -	MPa	ASTM D 695
Flexural Modulus	9800 / 6000	MPa	ASTM D 790
Flexural Strength	245 / 160	MPa	ASTM D 790
Rockwell Hardness	R 120 /	-	ASTM D 785
Izod Impact notched, 1/8 in	325 / N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	170 / 190	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	24	E-6/K	ASTM D 696
DTUL @ 66 psi	230	°C	ASTM D 648
DTUL @ 264 psi	218	°C	ASTM D 648

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Comparative tracking index	575 / 575	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	25 / 19	kV/mm	ASTM D 149
Volume Resistivity	1E15 / 1E12	Ohm*cm	ASTM D 257
Arc Resistance	90 / 83	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.8	%	ASTM D 570
Water Absorption, Equilibrium	1.6	%	ASTM D 570
Density	1460	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 120	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	280	°C	-
Mold temperature	80 - 100	°C	-
Injection pressure	30 - 70	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific