

GLAMIDE® TY-592 GHV

PA6T-GF55

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	4	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Strength	245 / 230	MPa	ASTM D 638
Flexural Modulus	17500 / 17000	MPa	ASTM D 790
Flexural Strength	330 / 310	MPa	ASTM D 790
Rockwell Hardness	R 120 /	-	ASTM D 785
Izod Impact notched, 1/8 in	150 / 180	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	140 / 140	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	16	E-6/K	ASTM D 696
DTUL @ 66 psi	270	°C	ASTM D 648
DTUL @ 264 psi	264	°C	ASTM D 648

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	350 / 350	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	26 / 25	kV/mm	ASTM D 149
Volume Resistivity	1E15 / 1E15	Ohm*cm	ASTM D 257
Arc Resistance	25 / 25	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.1	%	ASTM D 570
Water Absorption, Equilibrium	0.8	%	ASTM D 570
Density	1810	kg/m ³	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	310 - 330	°C	-
Mold temperature	150	°C	-
Injection pressure	135	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant