

**ARLEN™ C240N**

PA6T-GF40

Mitsui Chemicals, Inc.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	180 / 150	MPa	ASTM D 638
Flexural Modulus	13000 / 9000	MPa	ASTM D 790
Flexural Strength	280 / 240	MPa	ASTM D 790
Rockwell Hardness	M 110 /	-	ASTM D 785
Izod Impact notched, 1/8 in	75 / 80	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	20	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	45	E-6/K	ASTM D 696
DTUL @ 264 psi	295	°C	ASTM D 648
Melting Temperature	310	°C	ASTM D 3418
Glass Transition Temperature	85	°C	ASTM E 1356

Electrical properties	dry / cond	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	22 / -	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.011 / -	-	ASTM D 150
Dielectric Constant, 1 MHz	4 / -	-	ASTM D 150
Volume Resistivity	1E15 / -	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1750	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	2 - 6	h	-
Mold temperature	90 - 140	°C	-
Feed temperature	50 - 90	°C	-
Zone 1	300 - 325	°C	-
Zone 2	315 - 335	°C	-
Zone 3	320 - 335	°C	-
Nozzle temperature	315 - 335	°C	-
Screw speed	150	rpm	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific