ARLEN™ AE4200N

PA6T — Mitsui Chemicals, Inc.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.008**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.01**	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Strength	**70 / 60**	MPa	ASTM D 638
Flexural Modulus	**3000 / 2700**	MPa	ASTM D 790
Flexural Strength	**120 / 110**	MPa	ASTM D 790
Rockwell Hardness	**M 80 /**	-	ASTM D 785
Izod Impact notched, 1/8 in	**70 / 80**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94
Thickness tested	**0.79**	mm	-
Coefficient of Thermal Expansion, MD	**65**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**67**	E-6/K	ASTM D 696
DTUL @ 264 psi	**145**	°C	ASTM D 648
Melting Temperature	**320**	°C	ASTM D 3418
Glass Transition Temperature	**125**	°C	ASTM E 1356

Electrical properties	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**31 / -**	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	**0.014 / -**	-	ASTM D 150
Dielectric Constant, 1 MHz	**3.3 / -**	-	ASTM D 150
Volume Resistivity	**1E15 / -**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.3**	%	ASTM D 570
Density	**1400**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**2 - 6**	h	-
Mold temperature	**50 - 90**	°C	-
Feed temperature	**50 - 90**	°C	-
Zone 1	**315 - 330**	°C	-
Zone 2	**320 - 335**	°C	-
Zone 3	**325 - 340**	°C	-
Nozzle temperature	**325 - 340**	°C	-
Screw speed	**150**	rpm	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Special Characteristics
Flame retardant

Features
Tribologic Grade

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific