

ARLEN™ AE4200N

Polyamide 6T
Mitsui Chemicals America, Inc.

Message:

ARLEN™AE4200N is a polyamide 6T (nylon 6T) material. This product is available in North America.
ARLEN™The main features of the AE4200N are:
flame retardant/rated flame
Flame Retardant

General Information				
UL YellowCard		E52579-242907	E52579-242908	
Features		Flame retardancy		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.40	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow: 2.00mm	0.80	--	%	ASTM D955
Transverse flow: 2.00mm	1.0	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	0.30	--	%	ASTM D570
100°C, 24 hr	2.0	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	80	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (2.00 mm)	70.0	60.0	MPa	ASTM D638
Tensile Elongation (Break, 2.00 mm)	4.0	4.0	%	ASTM D638
Flexural Modulus	3000	2700	MPa	ASTM D790
Flexural Strength	120	110	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	70	80	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	145	--	°C	ASTM D648
Glass Transition Temperature	125	--	°C	DSC
Melting Temperature	320	--	°C	
Linear thermal expansion coefficient				ASTM D696
Flow	6.5E-5	--	cm/cm/°C	ASTM D696
Lateral	6.7E-5	--	cm/cm/°C	ASTM D696

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	ASTM D257
Dielectric Strength	31	--	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30	--		ASTM D150
Dissipation Factor (1 MHz)	0.014	--		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-0	--		UL 94
Injection	Dry	Unit		
Drying Temperature	110		°C	
Drying Time	2.0 - 6.0		hr	
Hopper Temperature	50 - 90		°C	
Rear Temperature	315 - 330		°C	
Middle Temperature	320 - 335		°C	
Front Temperature	325 - 340		°C	
Nozzle Temperature	325 - 340		°C	
Mold Temperature	50 - 90		°C	
Injection Rate	Moderate			
Screw Speed	150		rpm	
Injection instructions				

Injection Pressure: Medium Pressure

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