

ARLEN™ A315

Polyamide 6T

Mitsui Chemicals America, Inc.

Message:

ARLEN™A315 is a polyamide 6T (nylon 6T) material, which contains a 15% glass fiber reinforced material. This product is available in North America. ARLEN™The main characteristics of A315 are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.30	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow: 2.00mm	0.50	--	%	ASTM D955
Transverse flow: 2.00mm	0.60	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	0.40	--	%	ASTM D570
100°C, 24 hr	2.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	105	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	120	110	MPa	ASTM D638
Tensile Elongation (Break)	3.0	3.0	%	ASTM D638
Flexural Modulus	6000	5500	MPa	ASTM D790
Flexural Strength	190	170	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	50	70	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	290	--	°C	ASTM D648
Glass Transition Temperature	125	--	°C	DSC
Melting Temperature	320	--	°C	
Linear thermal expansion coefficient				ASTM D696
Flow	3.4E-5	--	cm/cm/°C	ASTM D696
Lateral	5.5E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohms · cm	ASTM D257
Dielectric Strength	25	--	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	4.20	--		ASTM D150
Dissipation Factor (1 MHz)	0.020	--		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	110		°C	
Drying Time	2.0 - 6.0		hr	
Hopper Temperature	50.0 - 90.0		°C	
Rear Temperature	315 - 330		°C	
Middle Temperature	320 - 335		°C	
Front Temperature	325 - 340		°C	
Nozzle Temperature	325 - 340		°C	
Mold Temperature	90.0 - 140		°C	
Injection Rate	Moderate			
Screw Speed	150		rpm	
Injection instructions				

Injection Pressure: Medium Pressure

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