

ARLEN™ C230N

Polyamide 6T

Mitsui Chemicals America, Inc.

Message:

ARLEN™C230N is a polyamide 6T (nylon 6T) material, which contains a 30% glass fiber reinforced material. This product is available in North America.

ARLEN™The main features of C230N are:

flame retardant/rated flame

Flame Retardant

ARLEN™The typical application areas of C230N are: electrical/electronic applications

General Information				
UL YellowCard		E52579-242912	E52579-242914	
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Features		Flame retardancy		
Uses		Electrical/Electronic Applications		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.72	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow: 2.00mm	0.40	--	%	ASTM D955
Transverse flow: 2.00mm	0.80	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	0.30	--	%	ASTM D570
100°C, 24 hr	3.0	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	110	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	170	140	MPa	ASTM D638
Tensile Elongation (Break)	3.0	3.0	%	ASTM D638
Flexural Modulus	12000	8500	MPa	ASTM D790
Flexural Strength	260	220	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)	295	--	°C	ASTM D648
Glass Transition Temperature	85.0	--	°C	DSC
Melting Temperature	310	--	°C	
Linear thermal expansion coefficient				ASTM D696

Flow	2.4E-5	--	cm/cm/°C	ASTM D696
Lateral	5.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms · cm	ASTM D257
Dielectric Strength	20	--	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.90	--		ASTM D150
Dissipation Factor (1 MHz)	0.012	--		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	300 - 325		°C	
Middle Temperature	315 - 335		°C	
Front Temperature	320 - 335		°C	
Nozzle Temperature	315 - 335		°C	
Mold Temperature	90 - 140		°C	
Injection Rate	Moderate			
Screw Speed	150		rpm	
Injection instructions				

Injection Pressure: Medium Pressure

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

