

ARLEN™ C230N

Polyamide 6T

Mitsui Chemicals America, Inc.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

ARLEN™ C230N is a Polyamide 6T (Nylon 6T) material filled with 30% glass fiber. It is available in North America.

Important attributes of ARLEN™ C230N are:

- Flame Rated
- Flame Retardant

Typical application of ARLEN™ C230N: Electrical/Electronic Applications

General

Material Status	• Commercial: Active
Literature ¹	• Processing (English) • Technical Datasheet (English)
Search for UL Yellow Card	• Mitsui Chemicals America, Inc. • ARLEN™
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant
Uses	• Electrical/Electronic Applications
Forms	• Pellets

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.72	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow : 2.00 mm	0.40	--	%	
Across Flow : 2.00 mm	0.80	--	%	
Water Absorption				ASTM D570
24 hr, 23°C	0.30	--	%	
24 hr, 100°C	3.0	--	%	
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
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	110	--		ASTM D785
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
1.8 MPa, Unannealed	295	--	°C	
Glass Transition Temperature	85.0	--	°C	DSC
Melting Temperature	310	--	°C	
CLTE				ASTM D696
Flow	2.4E-5	--	cm/cm/°C	
Transverse	5.0E-5	--	cm/cm/°C	
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



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Injection	Dry Unit
Drying Temperature	110 °C
Drying Time	2.0 to 6.0 hr
Hopper Temperature	50 to 90 °C
Rear Temperature	300 to 325 °C
Middle Temperature	315 to 335 °C
Front Temperature	320 to 335 °C
Nozzle Temperature	315 to 335 °C
Mold Temperature	90 to 140 °C
Injection Rate	Moderate
Screw Speed	150 rpm

Injection Notes

Injection Pressure: Medium Pressure

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Mitsui Chemicals America, Inc.

Purchase, Purchase USA

Telephone: 914-253-0777

Web: <http://www.mitsuichemicals.com/>

Distributor

PolySource

PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>

Telephone: 866-558-5300

Web: <http://www.polysource.net/>

Availability: North America

