# **ARLEN™ C230N**

### Polyamide 6T

## Mitsui Chemicals America, Inc.



#### **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

Typical application of ARLEN *** C	250N. Electrical/Electronic Applications
General	
Material Status	Commercial: Active
Literature <sup>1</sup>	<ul><li>Processing (English)</li><li>Technical Datasheet (English)</li></ul>
Search for UL Yellow Card	<ul> <li>Mitsui Chemicals America, Inc.</li> <li>ARLEN™</li> </ul>
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/cm³	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
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### Mitsui Chemicals America, Inc.

njection	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 Pressure: Medium Pressure

#### **Notes**

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<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> Typical properties: these are not to be construed as specifications.



### 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



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