

# ARLEN™ A335

Polyamide 6T

Mitsui Chemicals America, Inc.

# PROSPECTOR®

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## Technical Data

### Product Description

ARLEN™ A335 is a Polyamide 6T (Nylon 6T) material filled with 35% glass fiber. It is available in North America. Primary attribute of ARLEN™ A335: Flame Rated.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E52579-242902</a> • <a href="#">E52579-242904</a>
Search for UL Yellow Card	• <a href="#">Mitsui Chemicals America, Inc.</a> • <a href="#">ARLEN™</a>
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Forms	• Pellets

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.48	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow : 2.00 mm	0.30	--	%	
Across Flow : 2.00 mm	0.60	--	%	
Water Absorption				ASTM D570
24 hr, 23°C	0.30	--	%	
24 hr, 100°C	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	240	220	MPa	ASTM D638
Tensile Elongation (Break)	3.0	3.0	%	ASTM D638
Flexural Modulus	12000	11000	MPa	ASTM D790
Flexural Strength	360	320	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	130	150	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	310	--	°C	
Glass Transition Temperature	125	--	°C	DSC
Melting Temperature	320	--	°C	
CLTE				ASTM D696
Flow	2.0E-5	--	cm/cm/°C	
Transverse	4.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohms-cm	ASTM D257
Dielectric Strength	27	--	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.50	--		ASTM D150
Dissipation Factor (1 MHz)	0.018	--		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry Unit			
Drying Temperature	110 °C			
Drying Time	2.0 to 6.0 hr			
Hopper Temperature	50 to 90 °C			



Injection	Dry Unit
Rear Temperature	315 to 330 °C
Middle Temperature	320 to 335 °C
Front Temperature	325 to 340 °C
Nozzle Temperature	325 to 340 °C
Mold Temperature	90 to 140 °C
Injection Rate	Moderate
Screw Speed	150 rpm

**Injection Notes**

Injection Pressure: Medium Pressure

**Notes**

<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>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

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#### Supplier

**Mitsui Chemicals America, Inc.**

Purchase, Purchase USA

Telephone: 914-253-0777

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

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#### Distributor

**PolySource**

Telephone: 866-558-5300

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

Availability: North America

