

Chase

Monday, June 04, 2007

LG ABS AF-312A  
 LG Chem Ltd. - Acrylonitrile Butadiene Styrene  
 Actions

Unit System: English

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## General Information

### Product Description

AF-312A is specifically engineered to meet the need for high performance products in the flame retardant resin applications. AF-312A provides an optimum balance of physical properties, high heat resistance outstanding UV stability and good finished part aesthetics.

### General

#### Material Status

- Commercial: Active

#### Availability

- Asia
- Europe
- North America
- Pacific Rim
- South America

#### Test Standards Available

- ASTM

#### Additive

- UV Stabilizer

#### Features

- Flame Retardant
- Heat Resistance, High
- Surface Finish, Good

#### Uses

- Computer Components
- Electrical Parts

#### Forms

- Pellets

### ASTM and ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
<a href="#">Density -Specific Gravity</a>	1.19	sp gr	ASTM D792
<a href="#">Melt Mass-Flow Rate (MFR)</a>			ASTM D1238
(200°C/5.0 kg)	6.0	g/10 min	
(220°C/10.0 kg)	50	g/10 min	
(230°C/3.8 kg)	15	g/10 min	
<a href="#">Mold Shrink, Linear-Flow</a>	0.0040 to 0.0070	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
<a href="#">Tensile Modulus</a> <sup>2</sup>	3.34E+6	psi	ASTM D638
<a href="#">Tensile Strength @ Yield</a> <sup>2</sup>	6440	psi	ASTM D638
<a href="#">Tensile Elongation @ Yld</a> <sup>2</sup>	5.0	%	ASTM D638
<a href="#">Tensile Elongation @ Brk</a> <sup>2</sup>	20	%	ASTM D638

<a href="#">Flexural Modulus</a> <sup>3</sup>	3.77E+6	psi	ASTM D790
<a href="#">Flexural Strength</a> <sup>3</sup>	10300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
<a href="#">Notched Izod Impact</a>			ASTM D256
(-22 °F, 0.125 in)	1.47	ft·lb/in	
(-22 °F, 0.250 in)	1.47	ft·lb/in	
(73 °F, 0.125 in)	5.51	ft·lb/in	
(73 °F, 0.250 in)	4.22	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
<a href="#">DTUL @66psi - Unannealed</a> (0.250 in)	181	°F	ASTM D648
<a href="#">DTUL @66psi - Annealed</a> (0.250 in)	189	°F	ASTM D648
<a href="#">DTUL @264psi - Unannealed</a> (0.250 in)	167	°F	ASTM D648
<a href="#">DTUL @264psi - Annealed</a> (0.250 in)	180	°F	ASTM D648
<a href="#">Vicat Softening Point</a> (Rate A, Loading 2 (50 N))	181	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
<a href="#">Flame Rating - UL</a>			UL 94
(0.0625 in)	V-0		
(0.100 in)	<ul style="list-style-type: none"> <li>• V-0</li> <li>• 5VB</li> </ul>		
(0.125 in)	<ul style="list-style-type: none"> <li>• V-0</li> <li>• 5VB</li> </ul>		

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

22.0 in/min

30.59 in/min

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