

LG ABS AF366A

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Sunday, September 7, 2025

General Information

Product Description

Description

AF366A is a Flame Retardant ABS product for injection molding, designed to have a flammability rating of V-0 at 1.5mm.

Key Features

High Flame Retardancy

Application

Electrical/Electronic Products, IT/OA Devices, TV, Monitor Housing

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Flame Retardant
Uses	• Electrical Parts • Electrical/Electronic Applications • Housings • Television Housings
RoHS Compliance	• RoHS Compliant
UL File Number	• E67171
Processing Method	• Injection Molding

Properties

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ¹	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	45	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	40.0	MPa	
Tensile Elongation ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	> 5.0	%	
Break, 23°C, 3.20 mm, Injection Molded	> 15	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	310	J/m	
23°C, 6.40 mm, Injection Molded	200	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	98		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	84.0	°C	

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Flammability		Nominal Value	Unit	Test Method
Flame Rating				
1.0 mm, ALL		HB		UL 94
1.5 mm, ALL		V-0		UL 94 IEC 60695-11-10, -20
1.8 mm, ALL		V-0		UL 94 IEC 60695-11-10, -20
2.0 mm, ALL	•	V-0		UL 94
	•	5VA		IEC 60695-11-10, -20
2.5 mm, ALL	•	V-0		UL 94
	•	5VA		IEC 60695-11-10, -20
3.0 mm, ALL	•	V-0		UL 94
	•	5VA		IEC 60695-11-10, -20
1.0 mm, ALL		HB75		IEC 60695-11-10, -20

Processing Information				
Injection		Nominal Value	Unit	
Drying Temperature		80 to 90	°C	
Drying Time		3.0 to 4.0	hr	
Processing (Melt) Temp		200 to 230	°C	
Mold Temperature		40 to 60	°C	
Screw Speed		30 to 60	rpm	

Notes

- ¹ 23°C
- ² 50 mm/min
- ³ Edgewise