

LG ABS AF365B

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Wednesday, September 3, 2025

General Information

Product Description

Description

AF365B is a Flame Retardant ABS product for injection molding, designed to have a flammability rating of V-0 at 2.0mm.

Key Features

Flame Retardancy

Application

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

General			
Material Status	Commercial: Active		
Availability	Asia PacificEurope	Latin AmericaNorth America	
Features	 Flame Retardant 		
Uses	 Electrical/Electronic App 	lications · 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/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	50	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	39.0	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	290	J/m		
23°C, 6.40 mm, Injection Molded	180	J/m		
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	100		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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Thermal	Nominal Value Unit	Test Method
RTI Elec		UL 746B
1.0 mm	60.0 °C	
1.7 mm	60.0 °C	
1.8 mm	85.0 °C	
2.0 mm	85.0 °C	
2.5 mm	85.0 °C	
3.0 mm	85.0 °C	
RTI Imp		UL 746B
1.0 mm	60.0 °C	
1.7 mm	60.0 °C	
1.8 mm	85.0 °C	
2.0 mm	85.0 °C	
2.5 mm	85.0 °C	
3.0 mm	85.0 °C	
RTI Str		UL 746B
1.0 mm	60.0 °C	
1.7 mm	60.0 °C	
1.8 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+14 ohms·cm	ASTM D257
Comparative Tracking Index (CTI)	PLC 2	UL 746A
High Amp Arc Ignition (HAI)		UL 746A
1.7 mm	PLC 2	
1.8 mm	PLC 2	
2.0 mm	PLC 2	
2.5 mm	PLC 2	
3.0 mm	PLC 1	
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746A
Hot-wire Ignition (HWI)		UL 746A
1.7 mm	PLC 3	
1.8 mm	PLC 3	
2.0 mm	PLC 2	
2.5 mm	PLC 2	
3.0 mm	PLC 2	

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Flammability		Nominal Value Unit	Test Method
Flame Rating			
1.0 mm, ALL		НВ	UL 94
1.7 mm, ALL		V-1	UL 94 IEC 60695-11-10, -20
1.8 mm, ALL		V-1	UL 94 IEC 60695-11-10, -20
2.0 mm, ALL	•	V-0	UL 94
2.0 IIIII, ALL	•	5VA	IEC 60695-11-10, -20
2.5 mm, ALL	•	V-0	UL 94
2.5 mm, ALL	•	5VA	IEC 60695-11-10, -20
2.0 mm All	•	V-0	UL 94
3.0 mm, ALL	•	5VA	IEC 60695-11-10, -20
1.0 mm, ALL		HB75	IEC 60695-11-10, -20
Glow Wire Flammability Index (3.0 mm)		960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature (3.0 mm)		675 °C	IEC 60695-2-13

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