

LG ABS AF312A

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Flame Retardant
Application
Electric/Electronic Applications(TV, Monitor Housing)
IT/OA device

General Information			
UL YellowCard	E248280-462772	E67171-248341	
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	60	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2260	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	46.1	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, 3.20 mm	5.0	%	
Break, 3.20 mm	20	%	
Flexural Modulus ⁴ (6.40 mm)	2550	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 604 mm)	68.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	69	J/m	
-30°C, 6.40 mm	69	J/m	
23°C, 3.20 mm	250	J/m	
23°C, 6.40 mm	210	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm ⁶	84.0	°C	
0.45 MPa, Unannealed, 6.40 mm ⁷	76.0	°C	
Vicat Softening Temperature	83.0	°C	ASTM D1525 ⁸
RTI Elec	85.0	°C	UL 746

RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
2.00 mm	5VB		
	V-0		
2.50 mm	5VB		
	V-0		
3.00 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.010	%	
Rear Temperature	170 to 190	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	190 to 210	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	200 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	0.490 to 0.981	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	4.6kg		
7.	18.6kg		
8.	Rate A (50°C/h), Loading 2 (50 N)		

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