LG ABS AF366

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Flame Retardant, Heat resistant
Application
Electric parts, IT/OA device
TV, monitor housing

General Information			
UL YellowCard	E67171-101675454		
Features	Good Heat Resistance Flame retardancy		
Uses	Electrical components TV housing		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm)	2060	MPa	ASTM D638
Tensile Strength [2] (Yield, 3.20 mm)	39.2	MPa	ASTM D638
Tensile Elongation [3]			ASTM D638
Yield, 3.20mm	5.0	%	ASTM D638
Fracture, 3.20mm	> 20	%	ASTM D638
Flexural Modulus [4] (6.40 mm)	2450	MPa	ASTM D790
Flexural Strength [5] (6.40 mm)	70.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	69	J/m	ASTM D256
-30°C, 6.40 mm	59	J/m	ASTM D256
23°C, 3.20 mm	210	J/m	ASTM D256
23°C, 6.40 mm	180	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	90.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	84.0	°C	ASTM D648
Vicat Softening Temperature	91.0	°C	ASTM D1525 [6]
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.5 mm	V-0	UL 94
	V-0	
2.0 mm	5VB	UL 94
	V-0	
2.5 mm	5VA	UL 94
	V-0	
3.0 mm	5VA	UL 94

Injection	Nominal Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	3.0 - 4.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	170 - 190	°C
Middle Temperature	180 - 200	°C
Front Temperature	190 - 210	°C
Nozzle Temperature	200 - 230	°C
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	40 - 60	°C
Back Pressure	0.490 - 0.981	MPa
Screw Speed	30 - 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.	速率 A (50°C/h), 载荷2 (50N)

Recommended distributors for this material

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