LG ABS SH610A

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS SH610A is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.
The main features of LG ABS SH610A are:
flame retardant/rated flame
Impact resistance

General Information			
UL YellowCard	E67171-248406	E248280-462777	
Features	Impact resistance, good		
Appearance	White		
Forms	Particle		
Processing Method	Extrusion Injection molding		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.05	g/cm³	ASTM D792
--	1040	kg/m³	ISO 1183 [1]
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0	g/10 min	ASTM D1238
Melt volume-flow rate (220°C/10.0 kg)	1.50	cm³/10min	ISO 1133 [2]
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption (Saturation)	0.19	%	ISO 62 [3]
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2 [4]
Tensile Strength			
Yield	41.4	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2 [5]
Tensile Strain			
Yield	5.0	%	ISO 527-2 [6]
Fracture	30	%	ASTM D638
Tensile Elongation at Break	20	%	ISO 527-2 [7]
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength	65.5	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179/1eA [8]
-30°C	28.6	kJ/m²	ISO 179/1eA
23°C	48.8	kJ/m²	ISO 179/1eA
Charpy impact strength			ISO 179/1eU [9]
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	490	J/m	ASTM D256
23°C, 6.35 mm	400	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	92.2	°C	ASTM D648
Glass Transition Temperature [10]	110	°C	ISO 11357-2 [11]
Vicat Softening Temperature			
--	103	°C	ASTM D1525
50°C/h, B (50N)	94.8	°C	ISO 306 [12]
Linear expansion coefficient			ISO 11359-2 [13]
Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093 [14]
Volume Resistivity	> 1.0E+13	ohms·m	IEC 60093 [15]
Relative Permittivity (1 MHz)	2.80		IEC 60250 [16]
Dissipation Factor (1 MHz)	9.5E-3		IEC 60250 [17]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.59 mm	HB		UL 94
3.18 mm	HB		UL 94
Burning Behav. at thickness h (3.20 mm, UL)	HB		ISO 1210 [18]
Additional Information			
Melt Flow Rate, ASTM D1238, 200°C/5kg: 0.5 g/10minMelt Flow Rate, ASTM D1238, 230°C/3.8kg: 1.5 g/10min			
NOTE			
1.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		
2.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		
3.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		
4.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		
5.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		
6.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???		

7.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
8.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
9.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
10.	10 °C/min
11.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
12.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
13.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
14.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
15.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
16.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
17.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
18.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???

Recommended distributors for this material

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