

LG ABS MP220

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS MP220 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of LG ABS MP220 are:

flame retardant/rated flame

Strong adhesion

The typical application field of LG ABS MP220 is: automotive industry

General Information			
UL YellowCard	E67171-248387		
Features	Electroplateable		
	Good adhesion		
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Dimensional Stability	0.0	%	ASTM D1042
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	44.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	130	J/m	ASTM D256
-30°C, 6.40 mm	130	J/m	ASTM D256
23°C, 3.20 mm	250	J/m	ASTM D256
23°C, 6.40 mm	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	95.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	89.0	°C	ASTM D648

Vicat Softening Temperature	97.0	°C	ASTM D1525
RTI Elec			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	29	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 2		UL 746
3.00 mm	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 4		UL 746
3.00 mm	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm, ALL	HB		UL 94
3.00 mm, ALL	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	190 - 210	°C	
Middle Temperature	200 - 220	°C	
Front Temperature	210 - 230	°C	
Nozzle Temperature	210 - 230	°C	
Processing (Melt) Temp	210 - 230	°C	
Mold Temperature	40.0 - 60.0	°C	
Back Pressure	68.6 - 88.3	MPa	
Screw Speed	< 80	rpm	
Injection instructions			
Minimum Moisture Content: 0.01%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		

3.	15 mm/min
4.	15 mm/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

