

LG ABS XG569C

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS XG569C is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of LG ABS XG569C are:

- Flame Rated
- High Gloss
- Scratch Resistant

Typical applications include:

- Electrical/Electronic Applications
- Housings

General Information			
UL YellowCard	E67171-482537	E248280-100041123	
Features	High Gloss		
	Scratch Resistant		
Uses	Electrical/Electronic Applications		
	Housings		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Moisture Content	> 0.010	%	
Ozone Resistance ¹	No Crack		JIS K6301
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm)	54.9	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, 3.20 mm	> 6.0	%	
Break, 3.20 mm	20	%	
Flexural Modulus ⁴ (3.20 mm)	2790	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	90.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	49	J/m	

-30°C, 6.40 mm	49	J/m	
23°C, 3.20 mm	98	J/m	
23°C, 6.40 mm	98	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	86.0	°C	
0.45 MPa, Unannealed, 6.40 mm	88.0	°C	
1.8 MPa, Unannealed, 3.20 mm	82.0	°C	
1.8 MPa, Unannealed, 6.40 mm	83.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	200 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5 Sec.		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		

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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



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