

Technical Data

Product Description

LG MABS XG568	<p>Description</p> <ul style="list-style-type: none"> • Anti-Scratch, High Gloss <p>Application</p> <ul style="list-style-type: none"> • TV Front Cabinet, Bezel Audio/Video Housing
Generic MABS	<p>This data represents typical values that have been calculated from all products classified as: Generic MABS</p> <p>This information is provided for comparative purposes only.</p>

General	LG MABS XG568	Generic MABS
Manufacturer / Supplier	<ul style="list-style-type: none"> • LG Chem Ltd. 	<ul style="list-style-type: none"> • Generic
Generic Symbol	<ul style="list-style-type: none"> • MABS 	<ul style="list-style-type: none"> • MABS
Material Status	<ul style="list-style-type: none"> • Commercial: Active 	<ul style="list-style-type: none"> • Commercial: Active
Literature ¹	<ul style="list-style-type: none"> • Technical Datasheet (English) 	--
UL Yellow Card ²	<ul style="list-style-type: none"> • E67171-482536 • E248280-100041122 	--
Search for UL Yellow Card	<ul style="list-style-type: none"> • LG Chem Ltd. 	--
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America 	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	<ul style="list-style-type: none"> • Good Scratch Resistance • High Gloss 	--
Uses	<ul style="list-style-type: none"> • Electrical/Electronic Applications • Television Housings 	--
RoHS Compliance	<ul style="list-style-type: none"> • RoHS Compliant 	--
Processing Method	<ul style="list-style-type: none"> • Injection Molding 	--

Physical	LG MABS XG568	Generic MABS	Unit	Test Method
Density / Specific Gravity				
-- ⁴	1.10	--		ASTM D792
--	--	1.06 to 1.11		ASTM D792
--	--	1.08 to 1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)				
220°C/10.0 kg	18	2.0 to 25	g/10 min	ASTM D1238
220°C/10.0 kg	--	10 to 30	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	--	2.0 to 18	cm ³ /10min	ISO 1133
Molding Shrinkage				
Flow	--	5.0E-3 to 5.6E-3	in/in	ASTM D955
Flow : 73°F, 0.126 in, Injection Molded	4.0E-3 to 7.0E-3	--	in/in	ASTM D955
Across Flow	--	4.0E-3 to 6.0E-3	in/in	ASTM D955
--	--	0.40 to 0.60	%	ISO 294-4



Mechanical	LG MABS XG568	Generic MABS	Unit	Test Method
Tensile Modulus				
--	--	281000 to 384000	psi	ASTM D638
73°F, 0.126 in, Injection Molded ⁵	384000	--	psi	ASTM D638
--	--	273000 to 381000	psi	ISO 527-1
Tensile Strength				
Yield	--	5350 to 8560	psi	ASTM D638
Yield, 73°F, 0.126 in, Injection Molded ⁵	7980	--	psi	ASTM D638
Yield	--	6030 to 8040	psi	ISO 527-2
Break	--	4330 to 5690	psi	ASTM D638
Break	--	4640 to 6960	psi	ISO 527-2
--	--	6530 to 8270	psi	ISO 527-2
Tensile Strain				
Yield	--	3.0 to 4.0	%	ISO 527-2
Break	--	15 to 26	%	ASTM D638
Break, 73°F, 0.126 in, Injection Molded ⁵	> 15	--	%	ASTM D638
Break	--	5.0 to 21	%	ISO 527-2
Flexural Modulus				
--	--	257000 to 413000	psi	ASTM D790
73°F, 0.126 in, Injection Molded ⁶	413000	--	psi	ASTM D790
--	--	318000 to 384000	psi	ISO 178
Flexural Strength				
--	--	7790 to 13900	psi	ASTM D790
73°F, 0.126 in, Injection Molded ⁶	13100	--	psi	ASTM D790
--	--	10100 to 12500	psi	ISO 178
Impact				
	LG MABS XG568	Generic MABS	Unit	Test Method
Charpy Notched Impact Strength	--	0.95 to 7.2	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	--	33 to 58	ft·lb/in ²	ISO 179
Notched Izod Impact				
--	--	0.37 to 3.1	ft·lb/in	ASTM D256
-22°F, 0.126 in, Injection Molded	0.37	--	ft·lb/in	ASTM D256
-22°F, 0.252 in, Injection Molded	0.56	--	ft·lb/in	ASTM D256
73°F, 0.126 in, Injection Molded	1.5	--	ft·lb/in	ASTM D256
73°F, 0.252 in, Injection Molded	2.1	--	ft·lb/in	ASTM D256
--	--	3.3 to 7.2	ft·lb/in ²	ISO 180
Hardness				
	LG MABS XG568	Generic MABS	Unit	Test Method
Rockwell Hardness				
--	--	105 to 118		ASTM D785
R-Scale, 73°F, Injection Molded	115	--		ASTM D785
--	--	102 to 116		ISO 2039-2



Thermal	LG MABS XG568	Generic MABS	Unit	Test Method
Deflection Temperature Under Load				
66 psi, Unannealed	--	178 to 198	°F	ISO 75-2/B
66 psi, Annealed	--	185 to 201	°F	ISO 75-2/B
264 psi, Unannealed	--	172 to 198	°F	ASTM D648
264 psi, Unannealed, 0.252 in, Injection Molded ⁷	180	--	°F	ASTM D648
264 psi, Unannealed	--	158 to 174	°F	ISO 75-2/A
264 psi, Annealed	--	175 to 204	°F	ISO 75-2/A
Vicat Softening Temperature				
--	--	180 to 226	°F	ASTM D1525
--	194	--	°F	ASTM D1525 ⁸
--	--	187 to 221	°F	ISO 306
RTI Elec	122	--	°F	UL 746B
RTI Imp	122	--	°F	UL 746B
RTI Str	122	--	°F	UL 746B
Electrical	LG MABS XG568	Generic MABS	Unit	Test Method
Dissipation Factor	--	0.013 to 0.016		IEC 60250
Flammability	LG MABS XG568	Generic MABS	Unit	Test Method
Flame Rating				UL 94
0.06 in	HB	--		
0.13 in	HB	--		
Optical	LG MABS XG568	Generic MABS	Unit	Test Method
Light Transmittance	--	85.8 to 90.0	%	ASTM D1003
Haze	--	1.75 to 3.25	%	ASTM D1003
Injection	LG MABS XG568	Generic MABS	Unit	
Drying Temperature	176 to 194	158 to 185	°F	
Drying Time	3.0 to 4.0	2.0 to 4.0	hr	
Rear Temperature	356 to 392	365 to 428	°F	
Middle Temperature	374 to 410	392 to 420	°F	
Front Temperature	392 to 428	410 to 456	°F	
Nozzle Temperature	392 to 446	417 to 464	°F	
Processing (Melt) Temp	392 to 446	417 to 473	°F	
Mold Temperature	104 to 140	121 to 145	°F	
Injection Pressure	--	17500 to 22500	psi	
Back Pressure				
-- ⁹	142 to 427	--	psi	
--	--	107 to 6530	psi	
Screw Speed	30 to 60	45 to 100	rpm	



Injection Notes

LG MABS
XG568

Minimum Moisture Content: 0.01%

Generic
MABS

This data represents typical values that have been calculated from all products classified as: Generic MABS

This information is provided for comparative purposes only.

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 23°C

⁵ 2.0 in/min

⁶ 0.59 in/min

⁷ Edgewise

⁸ Rate A (50°C/h), Loading 2 (50 N)

⁹ Hydraulic Type

