

MP-211 (Metal Plating Grade)

Application

Knobs, name plates, handle of refrigerator, cosmetic containers, small size products requiring metal plating

Feature

LG plating ABS MP-211 maintains physical properties, processibility and mechanical properties of general ABS and also has excellent plating properties. This product are appropriate for plating of large articles such as automobile radiators and lamp housing, and shows reasonable level of plating adhesion strength and cycling properties at high/low temperature.

Properties	Test Method	Test Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792		g/cc	1.05
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200℃/ 5kg	g/10min	2
	—	220℃/ 10kg	g/10min	20
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	7
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	460
			lb/in ²	6,500
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	21,800
			lb/in ²	
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	20
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	720
			lb/in ²	10,200
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	23,900
			lb/in ²	339,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23℃	kg·cm/cm	35
		1/4" , '-30℃	kg·cm/cm	15
		1/8" , '23℃	kg·cm/cm	38
		1/8" , '-30℃	kg·cm/cm	16
Rockwell Hardness	ASTM D785	R-Scale	—	107
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)	℃	90
			°F	194
		18.5kg/cm ² , 1/4" (unannealed)	℃	86
			°F	187
		4.6kg/cm ² , 1/4" (annealed)	℃	96
			°F	205
4.6kg/cm ² , 1/4" (unannealed)	℃	95		
	°F	203		
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	95
			°F	203
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	FH3-33
		1/16"	mm/min	