

# LG-749 (Low Gloss Grade)

## Application

Automotive Interior(Glove Cover, Console Box, Door S/W Housing)

## Feature

LG ABS LG-749 for matt products maintains physical properties, processability and mechanical properties of general ABS. It also shows reasonable level of matt properties on surface of molding products. Since products are not coated, this resin leads to cost reduction through direct producing of complete products without matt coating processes, and easy recycling.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		g/cc	1.04
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200℃/ 5kg	g/10min	1
	—	220℃/ 10kg	g/10min	4
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	2
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	430
			lb/in <sup>2</sup>	6,100
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	20,900
			lb/in <sup>2</sup>	
Elongation at yield	ASTM D638	50mm/min	%	5
Elongation at break	ASTM D638	50mm/min	%	25
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	720
			lb/in <sup>2</sup>	10,200
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	23,000
			lb/in <sup>2</sup>	327,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23℃	kg·cm/cm	22
		1/4" , '-30℃	kg·cm/cm	8
		1/8" , '23℃	kg·cm/cm	25
		1/8" , '-30℃	kg·cm/cm	8
Rockwell Hardness	ASTM D785	R-Scale	—	107
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (annealed)	℃	101
			°F	214
		18.5kg/cm <sup>2</sup> , 1/4" (unannealed)	℃	97
			°F	207
		4.6kg/cm <sup>2</sup> , 1/4" (annealed)	℃	109
			°F	228
4.6kg/cm <sup>2</sup> , 1/4" (unannealed)	℃	106		
	°F	223		
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	103
			°F	217
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	