

ASA LI-941



Application

Side mirror housing, radiator grill, fan-housing, Rear Panel

Feature

Heat resistant ASA from LG chemical has excellent weather resistance as well as heat resistance, so it is best choice for automobile rearview mirror and radiator grilles. Its typical properties are as follows.

Properties	Test Method	Test Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792		g/cc	1.07
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200℃/ 5kg	g/10min	0.5
	—	220℃/ 10kg	g/10min	6
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	2
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	480
			lb/in ²	6,800
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	20,400
			lb/in ²	
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	25
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	770
			lb/in ²	11,000
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	23,500
			lb/in ²	334,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23℃	kg·cm/cm	14
		1/4" , '-30℃	kg·cm/cm	4
		1/8" , '23℃	kg·cm/cm	17
		1/8" , '-30℃	kg·cm/cm	4
Rockwell Hardness	ASTM D785	R-Scale	—	105
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)	℃	105
			°F	221
		18.5kg/cm ² , 1/4" (unannealed)	℃	97
			°F	207
		4.6kg/cm ² , 1/4" (annealed)	℃	107
			°F	225
4.6kg/cm ² , 1/4" (unannealed)	℃	104		
	°F	219		
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	104
			°F	219
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	