

## Application

Products demanding high transparency such as refrigerator sleeves.

## Feature

SAN from LG chemical has excellent heat resistance, chemical resistance, mechanical properties, processibility and transparency. SAN resin is widely used for production of electric/electronic components, automobile components and household articles.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		-	1.07
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	5
	-	220 / 10kg	g/10min	53
	ASTM D1238(I)	230 / 3.8kg	g/10min	18
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	680
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	31,400
Elongation at yield	ASTM D638	50mm/min	%	-
Elongation at break	ASTM D638	50mm/min	%	6
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	1100
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	36,700
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	1
		1/4" , ' - 30	kg·cm/cm	1
		1/8" , '23	kg·cm/cm	-
		1/8" , ' - 30	kg·cm/cm	-
Rockwell Hardness	ASTM D785	R- Scale	-	124
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (unannealed)		90
		4.6kg/cm <sup>2</sup> , 1/4" (unannealed)		-
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		101
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
Relative Temp Index	UL 746B	Elec		50
		Mech w/impact		50
		Mech w/o impact		50
<b>Recommended Processing Condition</b>				
Injection molding - Melt temperature				190~230
Injection molding - Mold temperature				40~80
Injection molding - Pre-drying Temperature				80~90
Injection molding - Pre-drying Time			hrs	2~4

\* These property values are typical representative for natural color and are not intended for specification purpose.

When pigments are loaded, there might be slight change in the properties.

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