

LG SAN 80HF (L)

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
Physical				
Specific Gravity	ASTM D792		-	1.07
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	3
	-	220 / 10kg	g/10min	29
	ASTM D1238(I)	230 / 3.8kg	g/10min	10
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	750
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	31,700
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 ²	1200
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	37,500
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	-	123
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (unannealed)		90
		4.6kg/cm ² , 1/4" (unannealed)		-
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		100
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
Recommended Processing Condition				
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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