

LG SAN 90HR

Styrene Acrylonitrile

LG Chem Ltd.

Message:

LG SAN 90HR is a Styrene Acrylonitrile (SAN) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Important attributes of LG SAN 90HR are:
Flame Rated
Heat Resistant
Typical applications include:
Electrical/Electronic Applications
Housings

General Information			
UL YellowCard	E67171-248686		
Features	Medium Heat Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.0	g/10 min	
220°C/10.0 kg	27	g/10 min	
230°C/3.8 kg	10	g/10 min	
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	3210	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	76.5	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	9.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	3770	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	9.8	J/m	
23°C, 6.40 mm	9.8	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	92.0	°C	ASTM D648

Vicat Softening Temperature	103	°C	ASTM D1525 ⁶
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

