

# Starex WX-9120HT

Lotte Chemical Corporation - Acrylonitrile Styrene Acrylate

## General Information

General			
Uses	• Construction Applications		
Properties <sup>1</sup>			
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.07		ASTM D792
Density (Natural)	1.07	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 8.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	4.0E-3 to 8.0E-3	in/in	ASTM D955
Molding Shrinkage			ISO 294-4
Across Flow : 0.0787 in	0.40 to 0.80	%	
Flow : 0.0787 in	0.40 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>	228000	psi	ASTM D638
Tensile Modulus	261000	psi	ISO 527-1/50
Tensile Strength <sup>2</sup> (Yield)	5260	psi	ASTM D638
Tensile Stress (Yield)	5080	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Break)	5260	psi	ASTM D638
Tensile Stress (Break)	4350	psi	ISO 527-2/50
Tensile Strain (Break)	13	%	ISO 527-2/5
Flexural Modulus <sup>3</sup>	233000	psi	ASTM D790
Flexural Modulus <sup>4</sup>	305000	psi	ISO 178
Flexural Strength <sup>3</sup>	7970	psi	ASTM D790
Flexural Stress <sup>4</sup>	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>5</sup> (73°F)	5.7	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	3.3	ft·lb/in	ASTM D256
Notched Izod Impact Strength <sup>5</sup> (73°F)	7.1	ft·lb/in <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ASTM D785
Rockwell Hardness (R-Scale)	98		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.252 in	178	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed, 0.157 in	162	°F	
Vicat Softening Temperature	• •	194 192	°F ISO 306/B50

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## Lotte Chemical Corporation - Acrylonitrile Styrene Acrylate

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	176	°F
Hot Air Dryer	176 to 194	°F
Drying Time		
Desiccant Dryer	2.0 to 3.0	hr
Hot Air Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	356 to 374	°F
Middle Temperature	392 to 410	°F
Front Temperature	428 to 446	°F
Nozzle Temperature	464	°F
Mold Temperature	104 to 176	°F
Injection Pressure	1420	psi
Back Pressure	71.1 to 284	psi
Screw Speed	50 to 150	rpm

### Injection Notes

Hot Runner Temperature: 240 °C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.20 in/min

<sup>3</sup> 0.11 in/min

<sup>4</sup> 0.079 in/min

<sup>5</sup> 4mm