

# Starex SR-0340M

Lotte Chemical Corporation - Acrylonitrile Butadiene Styrene

## General Information

### General

Uses • Automotive 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)	2.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.5	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage			ISO 294-4
Across Flow : 0.0787 in	0.40 to 0.70	%	
Flow : 0.0787 in	0.40 to 0.70	%	
Water Absorption (Saturation, 73°F)	0.050	%	ASTM D570
Water Absorption (Saturation, 73°F)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	6120	psi	ASTM D638
Tensile Stress (Yield)	6820	psi	ISO 527-2/50
Tensile Elongation <sup>2</sup> (Break)	14	%	ASTM D638
Tensile Strain (Break)	14	%	ISO 527-2/50
Flexural Modulus <sup>3</sup>	319000	psi	ASTM D790
Flexural Modulus <sup>4</sup>	363000	psi	ISO 178
Flexural Strength <sup>3</sup>	9100	psi	ASTM D790
Flexural Stress <sup>4</sup>	11300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>5</sup> (73°F)	6.2	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			ASTM D256
73°F, 0.125 in	3.0	ft·lb/in	
73°F, 0.250 in	2.6	ft·lb/in	
Notched Izod Impact Strength <sup>5</sup> (73°F)	6.7	ft·lb/in <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	248	°F	ISO 306/B50

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	194	°F
Hot Air Dryer	194	°F

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Injection	Nominal Value	Unit
Drying Time		
Desiccant Dryer	2.0 to 3.0	hr
Hot Air Dryer	3.0 to 4.0	hr
Suggested Max Moisture	< 0.10	%
Rear Temperature	374 to 419	°F
Middle Temperature	419 to 455	°F
Front Temperature	446 to 482	°F
Nozzle Temperature	464 to 509	°F
Mold Temperature	104 to 176	°F
Injection Pressure	7110 to 21300	psi
Back Pressure	71.1 to 284	psi
Screw Speed	50 to 150	rpm

#### Injection Notes

Hot Runner Temperature: 220 to 240°C