

**STAREX SL-0100**

ABS

Lotte Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	7.5	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	7.5	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	1700	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	74	%	ISO 527
Flexural modulus, 23°C	1800	MPa	ISO 178
Flexural strength	57	MPa	ISO 178
Charpy notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	93	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	1700	MPa	ASTM D 638
Tensile Strength at Yield	32	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Break	80	%	ASTM D 638
Flexural Modulus	1600	MPa	ASTM D 790
Flexural Strength	44	MPa	ASTM D 790
Rockwell Hardness	R 97	-	ASTM D 785
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact notched, 1/4 in	59	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	92	°C	ISO 75-1/-2
Vicat softening temperature, B	97	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	96	°C	ASTM D 648
DTUL @ 264 psi	85	°C	ASTM D 648
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Density	1030	kg/m <sup>3</sup>	ISO 1183
Density	1030	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Extrusion</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Type of extrusion	sheet	-	
Pre-drying - Temperature	80	°C	

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Pre-drying - Time	<b>2</b>	h	-
Processing humidity	<b>≤0.07</b>	%	-
Melt temperature	<b>230</b>	°C	-
Mold temperature	<b>40 - 50</b>	°C	-
Zone 1	<b>180 - 190</b>	°C	-
Zone 2	<b>190</b>	°C	-
Zone 3	<b>200</b>	°C	-
Nozzle temperature	<b>220</b>	°C	-

**Characteristics****Processing**

Sheet Extrusion

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color