

**STAREX GC-0710**

(ABS+PET)

Lotte Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0049	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0052	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	7	%	ISO 527
Flexural modulus, 23°C	1900	MPa	ISO 178
Flexural strength	60	MPa	ISO 178
Charpy notched impact strength, +23°C	5.2	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 100	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	1700	MPa	ASTM D 638
Tensile Strength at Yield	40	MPa	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	61	MPa	ASTM D 790
Rockwell Hardness	R 96	-	ASTM D 785
Izod Impact notched, 1/8 in	280	J/m	ASTM D 256
Izod Impact notched, 1/4 in	120	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	83	°C	ISO 75-1/-2
Vicat softening temperature, B	94	°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	3.0	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	80	°C	ASTM D 648
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Density	1120	kg/m <sup>3</sup>	ISO 1183
Density	1120	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	220 - 230	°C	-
Zone 2	230 - 240	°C	-
Zone 3	240 - 250	°C	-
Nozzle temperature	245	°C	-
Screw speed	50 - 150	rpm	-

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Injection pressure	<b>49 - 250</b>	MPa	-
Back pressure	<b>0.5 - 2</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Electrical and Electronical

**Delivery form**

Pellets, Natural Color

**Regional Availability**

North America, Europe, Asia Pacific