

**STAREX LF-1025**

PC

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	12	g/10min	ISO 1133
Temperature	250	°C	-
Load	10	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	10	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	52	MPa	ISO 527
Stress at break	56	MPa	ISO 527
Strain at break	80	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy notched impact strength, +23°C	23	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	21	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 118	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength at Yield	54	MPa	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	80	MPa	ASTM D 790
Izod Impact notched, 1/8 in	270	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	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	142	°C	ISO 75-1/-2
Vicat softening temperature, B	148	°C	ISO 306

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1250	kg/m <sup>3</sup>	ISO 1183
Density	1250	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	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	40 - 100	°C	-
Zone 1	210 - 220	°C	-
Zone 2	230 - 240	°C	-
Zone 3	250 - 280	°C	-
Nozzle temperature	260 - 280	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 250	MPa	-
Back pressure	0.5 - 2	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color