

## HOPELEX PC-1100

Polycarbonate resin

### General Information

#### Description

- Medium viscosity, high impact strength
- High tensile strength, flexural strength, and elastic modulus

#### Applications

SHEET EXTRUSION & INJECTION GRADE

### Typical properties<sup>1</sup>

	Test Method	Typical value	Unit
<b>Physical</b>			
Melt Flow Index, 300 °C, 1.2kg	ASTM D1238	10	g/10min
Specific Gravity	ASTM D792	1.20	
Mold Shrinkage	ASTM D955	0.5-0.7	%
<b>Mechanical</b>			
Tensile Strength, yield, 50mm/min	ASTM D638	630	kgf/cm <sup>2</sup>
Tensile Elongation, break, 50mm/min	ASTM D638	>100	%
Flexural Strength, yield, 10mm/min	ASTM D790	920	kgf/cm <sup>2</sup>
Flexural Modulus, 10mm/min	ASTM D790	24,000	kgf/cm <sup>2</sup>
IZOD Impact Strength, notched, 23 °C, 1/8"	ASTM D256	80	kg-cm/cm
	ASTM D256	-	kg-cm/cm
<b>Thermal</b>			
Heat Distortion Temp. 4.6kgf/cm <sup>2</sup>	ASTM D648	143	°C
	ASTM D648	132	°C
Vicat Softening Temp. Rate B/50	ASTM D1525	150	°C
<b>Optical</b>			
Light Transmittance	ASTM D1003	89	%
Haze	ASTM D1003	< 0.8	%
Refractive Index	ASTM D542	1.585	

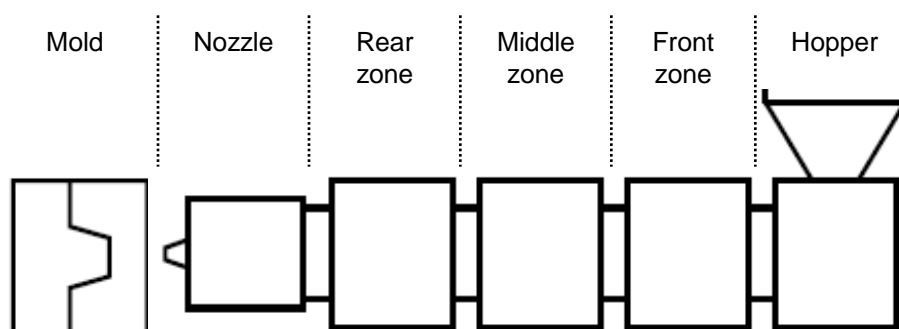
### Notes

ISO 9001, 14001, /TS 16949

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

### Processing guides<sup>1</sup>

	Typical value	Unit
<b>Drying condition</b>		
Drying temperature	120	°C
Drying time	4	hr
Maximum moisture content	0.02	%
<b>Injection molding</b>		
Melt temperature	290 ~ 310	°C
Nozzle temperature	280 ~ 300	°C
Barrel	Rear zone	290 ~ 310
	Middle zone	280 ~ 300
	Front zone	270 ~ 290
Hopper temperature	60 ~ 80	°C
Mold temperature	60 ~ 90	°C



### Recycling

Sprues and runners can be reground with virgin resin within the ratio of 20%. Care must be taken to ensure that the regrind is free from impurities and regrind should not be used in applications where impact performance and/or agency compliance are required.

### Notes

ISO 9001, 14001, /TS 16949

<sup>1</sup> Processing guides : Typical processing parameters are noted. Actual processing conditions will depend on machine size, mold design, material residence time, shot size, etc.