

HOPELEX PC-1100

Polycarbonate resin

General Information

Description

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

Applications

Injection Products

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
	notched, 23 °C, 1/4"	ASTM D256	-
<b>Thermal</b>			
Heat Distortion Temp. 4.6kgf/cm <sup>2</sup>	ASTM D648	143	°C
	18.6kgf/cm <sup>2</sup>	ASTM D648	132
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	

ISO 9001, 14001, /TS 16949

