

**HOPELEX PC-1100U**  
**Polycarbonate**  
**Honam Petrochemical Corporation**



**General**

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• Europe

**Physical**

	Nominal Value Unit	Test Method
Specific Gravity	1.20 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70 %	ASTM D955

**Mechanical**

	Nominal Value Unit	Test Method
Tensile Strength (Yield)	61.8 MPa	ASTM D638
Tensile Elongation (Break)	110 %	ASTM D638
Flexural Modulus	2350 MPa	ASTM D790

**Impact**

	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	850 J/m	ASTM D256

**Hardness**

	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785

**Thermal**

	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	130 °C	ASTM D648
Vicat Softening Temperature	150 °C	ASTM D1525 <sup>2</sup>

**Optical**

	Nominal Value Unit	Test Method
Transmittance	89.0 %	ASTM D1003
Haze	< 0.80 %	ASTM D1003

**Notes**

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

<sup>2</sup> Rate A (50°C/h), Loading 1 (10 N)