

HOPELEX PC-1100

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 ³	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 ²

Optical

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

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate A (50°C/h), Loading 1 (10 N)