Suyuan Polymers
Plastic Raw Materials

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Polycarbonate

PC A1105 9100

Wanhua Chemical, Yantai

Features High transparency, high impact resistance, heat resistance.

Applications Home appliance housings, electronic equipment, automotive parts, transparent optical components.

Property	Condition	Method	Value	Unit
Physical Properties				
Density	—	ASTM D792	**1.2**	g/cm³
Shrinkage	—	ASTM D955	**0.5-0.7**	%
Melt Mass-Flow Rate	300 °C / 1.2 kg	ASTM D1238	**9**	g/10min
Mechanical Properties				
Tensile Modulus	1.0 mm/min	ASTM D638	**2300**	MPa
Tensile Strength at Yield	50 mm/min	ASTM D638	**65**	MPa
Elongation at Break	50 mm/min	ASTM D638	**120**	%
Flexural Strength	2.0 mm/min	ASTM D790	**97**	MPa
Flexural Modulus	2.0 mm/min	ASTM D790	**2300**	MPa
Notched Izod Impact Strength	23 °C	ASTM D256	**80**	kJ/m²
Optical Properties				
Light Transmittance	—	ASTM D1003	**89**	%
Haze	3000 μm	ASTM D1003	**0.8**	%
Thermal Properties				
Heat Deflection Temperature	1.8 MPa, 3.2 mm	ASTM D648	**130**	°C
Vicat Softening Temperature	120 °C/h, 50 N	ASTM D1525	**150**	°C
Flammability				
UL Flammability Rating	3 mm	UL 94	**HB**	—
UL Flammability Rating	1.5 mm	UL 94	**V-2**	—

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Note: Data are for reference only and do not constitute guaranteed specifications. Suitability for the intended application should be verified by testing. Contact us for further technical information.