Suyuan Polymers
Plastic Raw Materials

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General Purpose Polystyrene

GPPS PG-33

Zhenjiang Chimei | Injection Grade

Features Flame retardancy, transparency.

Applications Lighting fixtures, containers, household goods, food containers, vehicle lamp covers, audio tapes.

Property	Condition	Method	Value	Unit
Physical Properties				
Density	—	ASTM D792	**1.05**	g/cm³
Density	23 °C	ISO 1183	**1.04**	g/cm³
Melt Mass-Flow Rate	200 °C/5.0 kg	ASTM D1238	**8.0**	g/10min
Melt Volume-Flow Rate	200 °C/5.0 kg	ISO 1133	**8.00**	cm³/10min
Shrinkage	—	ISO 294-4	**0.40 to 0.70**	%
Mechanical Properties				
Tensile Strength	Break	ASTM D638	**45.0**	MPa
Tensile Strength	Break	ISO 527-2/50	**48.0**	MPa
Elongation	Break	ASTM D638	**2.0**	%
Elongation	Break	ISO 527-2/50	**2.0**	%
Flexural Modulus	—	ASTM D790	**3030**	MPa
Flexural Modulus	—	ISO 178	**3100**	MPa
Flexural Strength	—	ASTM D790	**65.6**	MPa
Flexural Strength	—	ISO 178	**75.0**	MPa
Notched Charpy Impact Strength	-30 °C	ISO 179	**1.8**	kJ/m²
Notched Charpy Impact Strength	23 °C	ISO 179	**2.7**	kJ/m²
Notched Izod Impact Strength	23 °C, 3.20 mm	ASTM D256	**17**	J/m
Notched Izod Impact Strength	23 °C, 6.40 mm	ASTM D256	**15**	J/m
Notched Izod Impact Strength	-30 °C	ISO 180/1A	**1.8**	kJ/m²
Notched Izod Impact Strength	23 °C	ISO 180/1A	**4.0**	kJ/m²
Rockwell Hardness	M scale	ASTM D785	**77**	—
Thermal Properties				
Heat Deflection Temperature	1.8 MPa, unannealed	ASTM D648	**79.0**	°C
Heat Deflection Temperature	1.8 MPa, unannealed	ISO 75-2/A	**76.0**	°C
Heat Deflection Temperature	1.8 MPa, annealed	ASTM D648	**87.0**	°C
Heat Deflection Temperature	1.8 MPa, annealed	ISO 75-2/A	**87.0**	°C
Vicat Softening Temperature	—	ASTM D15257	**94.0**	°C
Vicat Softening Temperature	—	ISO 306/A50	**94.0**	°C
Vicat Softening Temperature	—	ISO 306/B50	**90.0**	°C
Coefficient of Linear Thermal Expansion	MD	ISO 11359-2	**5.0E-5 to 8.0E-5**	cm/cm/°C
Flammability				
UL Flammability Rating	1.5 mm	UL94	**HB**	—

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.