

ROWAD NATIONAL PLASTIC CO. LTD.**General Purpose Polystyrene Sheets (GPPS)****Standard Specifications**

Typical Properties	Units	Value	Testing Method
Mechanical			
Rockwell Hardness	R-Scale	105	ASTM D-785
Tensile Strength at Break	MPa	40	ASTM D-638
Elongation at Break	%	3	ASTM D-638
Tensile Modulus	MPa	3100-3300	ASTM D-638
Flexural Strength	MPa	70--110	ASTM D-790
Flexural Modulus	MPa	3200-3500	ASTM D-638
Izod Impact Notched @ 23 °C	KJ/m ²	3	ASTM D-256A / ISO 180
Thermal			
Vicat Softening Point	°C	100	ASTM D-1525
Heat Deflection Temperature	°C	95	ASTM D-648
Thermal Conductivity	W/m °K	0.17	ASTM C-177
Coefficient of Linear Expansion	10 ⁻⁶ C ⁻¹	60-70	ASTM D-696
Physical			
Density	g/cm ³	1.05	ASTM D-792
Flammability			
Flame Class Rating, HB	mm	1.5	UL-94
Optical			
Light Transmission	%	> 83	ASTM D-1003
Haze	%	< 1.0	ASTM D-1003

Sizes:**Sheet.**

Thickness: 1 – 15 mm

Length: Unlimited but normally 3 meters is widely in use

Width: Thickness of 1 -2mm: 1.22 meters,

Thickness of 2-15mm: Max. 2.05 meters

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Disclaimer Notice: This information is given in good faith and to the best of our knowledge, but without any warranty. Users of our materials should determine the suitability for a specific application.

It is always advisable to do preliminary testing. The above data show typical average values only.