

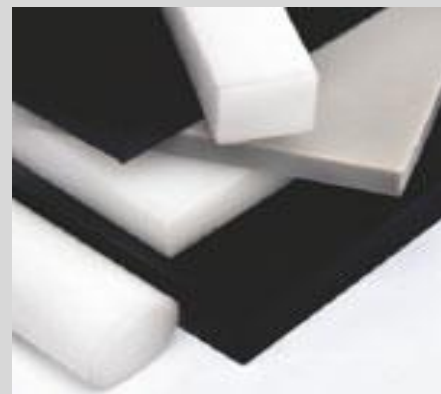
Polypropylene is a semi-rigid, translucent polymer with good toughness and weather resistance properties. It is a largely non-polar, partially crystalline thermoplastic with a crystallinity of 60 to 70%. PP has a density of 0.90 to 0.91 ^{g/cm³} which is amongst the lowest densities for all plastics. NovaLene sheets are made in 3 basic grades for application based usage - in PP-Homopolymer (PPH), PP-copolymer (PP-C) & PP Random Copolymer (PP-R). PP has replaced a lot of traditional materials of construction including metals, wood and concrete in a variety of applications.

Key Features:-

- Excellent Chemical Resistance
- High Thermal Resistance
- Excellent Fusion Capabilities
- Homogenous structure
- Excellent Fatigue Resistance
- High Impact Strength
- Low density, Low weight
- Excellent Dielectric properties
- Good Elasticity
- Non Toxic, Food Grade
- Good Thermal insulation
- High Stress Crack Resistance

Standard Sizing:-

| Thickness (in mm) | Width x Length (in m) | Packing |
|-------------------|--|-------------------|
| 0.2-1 | - | 10 Rolls |
| 2 | 1.5 x 20 1.22 x 2.44 1.25 x 2 1.5 x 3 | 10 Rolls |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 8 | | 4 / 5 / 6 / 8 Pcs |
| 10 | | 4 / 5 / 6 Pcs |
| 12 | | 3 / 4 / 5 Pcs |
| 15 | 1.22 x 2.44 1.25 x 2 1.25 x 3 1.5 x 3 | 2 / 3 / 4 / 5 Pcs |
| 20 | | |
| 25 | | |
| 30-200 | | |
| | | |
| | | 2 / 3 / 4 Pcs |
| | | 2 / 3 Pcs |
| | | 1 Pc |
| | | 1 Pc |
| | | 1 Pc |



Applications:-

- Chemical Storage
- Filtration Systems, pickling tanks
- Etching Tanks, Fabrication Works
- Fume Extractors / FRP Lining
- Office Stationery
- Thermoforming plastic parts
- Industrial Flooring
- Orthotics and prosthetics
- Shipbuilding machinery
- Corrosive fume exhaust systems
- Engineering Components
- Point of Display
- Semiconductor equipment
- FRP Lining Fabrication
- Chemical industry
- Electroplating plants

Grades:

PPH, PPH 2150, PP-CO, PP-RC, PP-FR, PP-Std,
PP-EL, PP-UV, PP-SK, PP-GL, PP2222-36

Colours: Black, Dark Grey, Natural, Custom

Embossing / designs also available

Typical Properties

| Properties | Test Method | Unit | Value | |
|---------------------------------------|-------------|-------------------|------------|-----------|
| | | | PP-C | PP-H |
| Specific gravity (ρ) | ISO 1183 | g/cm^3 | 0.90 | 0.91 |
| Max. permissible service temperature | Average | $^{\circ}C$ | 80 | 95 |
| Lower permissible service temperature | | $^{\circ}C$ | 5 | 5 |
| Tensile strength at yield | ISO 527 | Mpa | >22 | >28 |
| Tensile strength at break | ISO 527 | Mpa | ≥ 26 | >31 |
| Elongation at yield | ISO 527 | % | ≥ 8 | ≥ 8 |
| Elongation at break | ISO 527 | % | ≥ 100 | ≥ 80 |
| Notch impact strength | ISO 179 | KJ/m ² | 12 | 9 |
| Impact strength | ISO 179 | KJ/m ² | No Break | No Break |
| Modulus of elasticity | ISO 527 | Mpa | 1300 | 1700 |
| Shore hardness | ISO 868 | Shore -D | 70 | 71 |
| Vicat Softening Temperature | ISO 306 | $^{\circ}C$ | 50-90 | 105 |
| Heat deflection temperature | ISO 306 | $^{\circ}C$ | 85 | 90 |

N.B.: Technical data refers to average values. The information provided above is based on the values measured in our laboratory as well as independent laboratories. The quoted values are based on specific resin properties and are subject to change without prior notice.

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