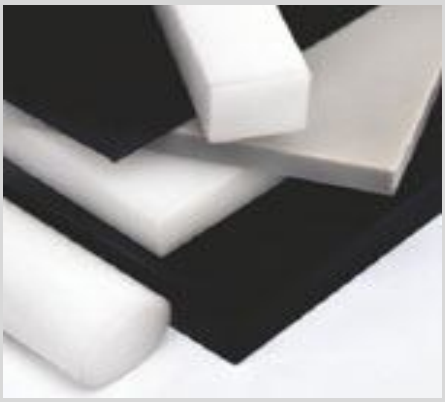
PP/ PPH TECHNICAL DATA SHEET

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		4 / 5 / 6 / 8 Pcs
6		4 / 5 / 6 Pcs
8		3 / 4 / 5 Pcs
10	1.22 x 2.44 1.25 x 2 1.25 x 3 1.5 x 3	2 / 3 / 4 / 5 Pcs
12		2 / 3 / 4 Pcs
15		2 / 3 Pcs
20		1 Pc
25		1 Pc
30-200	1.25 x 2	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

Typical Properties

Properties	Test Method	Unit	Value	
			PP-C	PP-H
Specific gravity (ρ)	ISO 1183	g/cm³	0.90	0.91
Max. permissible service temperature	Average	°C	80	95
Lower permissible service temperature		°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/m2	12	9
Impact strength	ISO 179	KJ/m2	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	°C	50-90	105
Heat deflection temperature	ISO 306	°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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