

Polystone®
Thermoplastics

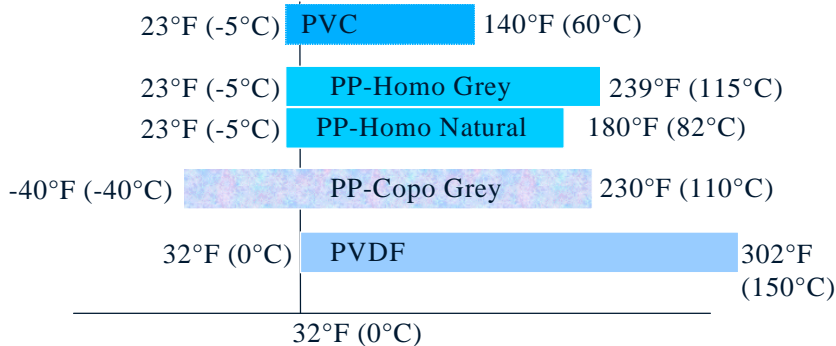
Polystone® P Röchling Grey
Premium Heat-Stabilized Polypropylene



Physical Properties			Polystone® P	
Property	Units	ASTM Test	Röchling Grey Homopolymer	Röchling Grey Copolymer
Density	gm/cm ³	D792	.92	.92
Tensile strength at yield	psi	D638	4600	3700
IZOD Impact Strength 73 F	Ft. lb./in.	D256	1.0	8.0
Flexural Modulus	psi	D790	180,000	155,000
Continuous Operating Temperature	°F	-	239	230
Hardness	Shore D	D785	72	68
Mean Coefficient of Linear Thermal Expansion	In./In./°F	D696	5-6.5 x 10 ⁻⁵	5-6.5 x 10 ⁻⁵

The values given are based on laboratory testing backed with global industry experience. All properties have performed equal or better in laboratory testing, however, the data should not be considered as guaranteed specific properties.

Operating Temperature:



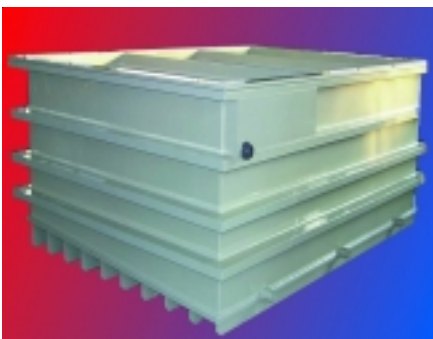
Operating temperatures are valid only if there are no aggressive chemicals in contact with the product and proper design or use of the product is followed.

Polystone® P Röchling Grey Polypropylene is designed to last up to 10 times longer than standard grades of polypropylene.

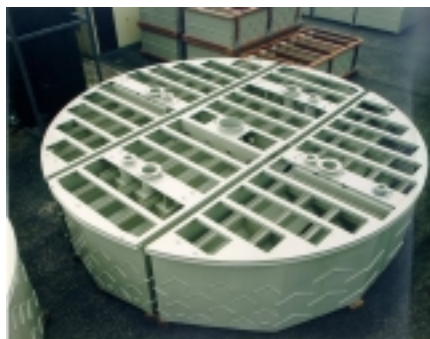
Polystone® P Röchling Grey is enhanced with special heat stabilizers to extend the life of the material and is primarily used as tanks and linings for the chemical and semiconductor industries. Together with its inherent corrosion resistant properties, this product can last for more than 50 years, as compared to standard grades of Natural polypropylene that have a lifetime of only 5 to 10 years in the same application.

A simple test can be performed to compare the heat and corrosion resistance by determining the point at which corrosion starts. Polystone® P Röchling Grey is not damaged after more than 2800 hours at 300°F, when standard grades of Natural polypropylene have become powder after 500 hours.

Even at normal operating temperatures, Polystone® P Röchling Grey is highly recommended. The small difference in cost, as compared to lower-quality products, is more than compensated by the huge increase in the life of the product.



Polystone® P Röchling Grey chemical tank



A settler fabricated from Polystone® P Röchling Grey

Sheets, Extruded

1/16" – 1-1/2" x 48" x 96"

1/16" – 1-1/2" x 48" x 120

1/16" – 1-1/2" x 60" x 120"

Custom sizes up to 120" wide available

Sheets, Presed

1-3/4" – 7"

Rods

110mm (4.33") – 350mm (13.78")

Welding Rod

3mm (.118") diameter



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