



# NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution



## Polystone® P Physical properties

Physical Properties			Polystone® P (Polypropylene)			
Property	Units	ASTM Test	Homopolymer	Copolymer	Röchling Grey Homopolymer	Röchling Grey Copolymer
Density	gm/cm <sup>3</sup>	D792	0.91	0.91	.91 - .92	.91 - .92
Tensile Strength at Yield	psi	D638	4700	3700	4600	3700
Continuous Operating Temperature	°F	-	180	180	239	230
Flexural Modulus	psi	D790	180,000	155,000	180,000	155,000
Izod Impact-Notched @ 73°	ft-lbs/inch	D256	1.9	8.0	1.0	8.0
Mean Coefficient of Linear Thermal Expansion	in/in/°F	D696	1.1 x 10 <sup>-4</sup>	1.1 x 10 <sup>-4</sup>	5-6.5 x 10 <sup>-5</sup>	5-6.5 x 10 <sup>-5</sup>
Hardness	Shore D	D785	72	68	72	68
Water Absorption	%	D570	<0.1	<0.1	<0.1	<0.1

Values shown are averages and should not be used as contractual property values. Specific property value requirements should be specified in the purchase agreement.

### East

Röchling Engineered Plastics, P.O. Box 2729, Gastonia, NC 28053  
(800) 541-4419, Fax: (704) 922-7651, Email [rep@roechling-plastics.us](mailto:rep@roechling-plastics.us)

### West

Röchling Engineered Plastics, 2040 Carlos Avenue, Ontario, CA 91761  
(800) 545-5177, Fax: (909) 923-3280, Email [rep@roechling-plastics.us](mailto:rep@roechling-plastics.us)



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Dallas, Texas (Corporate Offices)  
Houston, Texas  
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870  
phone 800-282-4388 / 713-979-0660  
phone 800-457-8623 / 601-825-7919

fax 214-239-3871  
fax 713-979-0664  
fax 601-825-7109

[www.nationwideplastics.net](http://www.nationwideplastics.net)

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