

Pipe Drifts

Plastic Properties

Property	Test Method	Units	UHW- PE	NYCAST 6	Teflon PTFE Virgin
Specific Gravity	D792	-	0.94	1.15- 1.17	2.16
Tensil Strength	D638	PSI	15.2	10,000- 13,500	3,350
Tensile Elongation	D638	%	60	20- 55	300
Tensile Modulus	D638	PSI	430,000	400,000- 550,000	-
Comprehensive Strength	D695	PSI	20,300	13,500- 16,000	-
Comprehensive Modulus	D695	PSI	42,000	325,000- 400,000	95,000
Flexural Strength	D790	PSI	21,000	15,500- 17,500	No Break
Flexural Modulus	D790	PSI	480,000	420,000- 500,000	72,000
Shear Strength	D732	PSI	15,000	10,000- 11,000	-
Notched Impact	D256	Ft. lbs/in	-	0.7- 0.9	30- 200
Hardness, Rockwell	D785	R	M109	115- 125	R10- R20
Hardness, Shore D	D2240	D	-	78- 83	-
Melting Point	D789	°F	-	450 ± 10	644
Coef. Of Linear Thermal Exp.	D696	In./in./ °F	3.34 x 10 ⁻⁵	5.0 x 10 ⁻⁵	6.5 x 10 ⁻⁵
Deformation Under load	D621	%	-	0.5- 2.5	3.0- 7.0
Deflection temp. 264 PSI	D648	°F	392	200- 400	100- 140
Deflection Temp. 66 PSI	D648	°F	410	400- 430	250
Continuous Service Temp.	-	°F	340	230	500
Intermittent Service Temp.	-	°F	-	330	-
Coefficient of Friction, Dynamic	-	-	-	0.22	.04- .10
Water Absorption 24hrs	D570	%	0.25	0.5- 0.6	0- 0.5
Water Absorption Saturation	D570	%	1.25	5.0- 6.0	-
Dielectric Strength (Short Time)	D149	V/mill.	830	500- 600	500- 650
Dielectric Constant (60 Cycles)	D150	-	3.15	3.7	-
Dielectric Constant (1,000 Cycles)	D150	-	3.15	3.7	-
Dielectric Constant (100,000 Cycles)	D150	-	-	3.7	2.1