

**Texas Pipe Drifts Supply Co.**  
**2935 Hwy 90 Crosby, TX 77532**  
**281-462-9800**

**PLASTIC PROPERTIES**

<b>PROPERTY</b>	<b>TEST</b>	<b>UNITS</b>	<b>UHMW - PE</b>	<b>NYCAST 6</b>	<b>TEFLON</b>
	<b>METHOD</b>				<b>PTFE VIRGIN</b>
Specific Gravity	D792	-	0.94	1.15 - 1.17	2.16
Tensile 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	Deg. F	-	450 ± 10	644
Coef. Of Linear Thermal Exp.	D696	in./in./Deg. F	3.45 x 10 <sup>-5</sup>	5.0 x 10 <sup>-5</sup>	6.5 x 10 <sup>-5</sup>
Deformation Under Load	D621	%	-	0.5 - 2.5	3.0 - 7.0
Deflection Temp. 264 PSI	D648	Deg. F	392	200 - 400	100 - 140
Deflection Temp. 66 PSI	D648	Deg. F	410	400 - 430	250
Continuous Service Temp.	-	Deg. F	340	230	500
Intermittent Service Temp.	-	Deg. F	-	330	-
Coefficient Of Friction, Dynamic	-	-	-	0.22	.04 -.10
Water Absorption 24 hrs.	D570	%	0.25	0.5 - 0.6	0 - 0.5
Water Absorption Saturation	D570	%	1.25	5.0 - 6.0	-
Dielectric Strenght (Short Time)	D149	V/mil.	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