

Prime ReCycle™ HMWPE Data Sheet

Property	ASTM	Units	Range	Average
Specific Gravity	D1505		0.9551-0.9659	0.962
Melt Flow @ 190°C/5kg	D1238	g/10 minutes	12.5-14.3	13.48
Tensile Strength	D638	psi	3,253-3,563	3,409
Elongation @ Break	D638	%	17.9-734.2	458.6
Flexural Modulus	D790	psi	140,000-164,000	150,200
Notched Izod @ 72 °F	D256	ft-lb/in	2.55-4.32	3.23 (PB)
Notched Izod @ -40 °F	D256	ft-lb/in	TBD	TBD
Multi-Axial Impact @ 72 °F, Max Load	D3763	lbs	485.1-511.2	498.53
Multi-Axial Impact @ -40 °F, Max Load	D3763	lbs	TBD	TBD
Hardness @ 2 Seconds	Shore	A	96-99	97.7
Hardness @ 10 Seconds	Shore	A	95-99	97.3
Hardness @ 2 seconds	Shore	D	63-66	64.6
Hardness @ 10 Seconds	Shore	D	60-63	61.4
Heat Deflection @ 66psi, Unannealed	D648A	°F	152.3-164.3	156.8
Vicat Softening Point	D1525	°F	257-259.7	258

*The properties defined above were determined based on the testing of 25 random lot.

*The lot samples were created by the Primex ReCycling Warehouse in Richmond, IN.