

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.

Note: These typical results are based on test procedures which are believed to be reliable. Due to variable conditions or methods of processing, NO GUARANTEES OR WARRANTIES ARE EXPRESSED OR IMPLIED INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE, nor any recommendations made to infringe on any patents.

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Sustainability includes considering the product's circularity or end of life during the design of the finished product. Prime ReCycle HMWPE is a polyethylene (recycle code 2) that can be recycled as a post-industrial or post-consumer product. Contact your Primex Territory Business Manager or check with local recycling facilities to determine where it is collected and recycled.

Primex Sustainability: A better tomorrow, starting today!

For more information on any of our materials, please call your Primex business manager or one of our locations nearest you.

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