

Data and Facts

H.D.P.E. Technical Data

Properties	Test method	Unit	0.75mm	1.00mm	1.50mm	2.00mm	2.50mm	3.00mm
Raw material			High Density Polyethylene (HDPE)					
Density	ASTM D 1505	g/cm ³	0.94	0.94	0.94	0.94	0.94	0.94
Melt Flow Index (190°C,2.16kg)	ASTM D 1238	g/10 min	0.4	0.4	0.4	0.4	0.4	0.4
Tensile Properties	ASTM D 638							
Tensile strength at yield		N/25mm	315	450	650	900	1150	1350
Tensile strength at strength		N/25mm	560	750	1125	1500	1860	2230
Elongation at break		%	700	700	700	700	700	700
Tear Resistance	ASTM D 1004	N	105	145	215	290	360	435
Puncture Resistance	FTM 101C Method 2065	N	225	300	390	500	600	700
Low temperature Brittleness	ASTM D 746	°C	-70	-70	-70	-70	-70	-70
Carbon Black Content	ASTM D 1603	%	2.2	2.2	2.2	2.2	2.2	2.2

The values given are indicative and correspond to average results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice at any time.

L.D.P.E. Technical Data

Properties	Test method	Unit	1.00mm	1.50mm	2.00mm	2.50mm	3.00mm
Raw material			Low Density Polyethylene (LDPE)				
Density	ASTM D 1505	g/cm ³	0.92	0.92	0.92	0.92	0.92
Melt Flow Index (190°C,2.16kg)	ASTM D 1238	g/10 min	0.4	0.4	0.4	0.4	0.4
Tensile Properties	ASTM D 638						
Tensile strength at yield		N/mm ²	15	15	15	15	15
Elongation at break		%	600	600	600	600	600
Tear Resistance	ASTM D 1004	N	80	130	180	230	280
Puncture Resistance	FTM 101C Method 2065	N	240	350	450	550	650
Low temperature Brittleness	ASTM D 746	°C	-70	-70	-70	-70	-70
Carbon Black Content	ASTM D 1603	%	2	2	2	2	2

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