



Specifications for High Density Polyethylene (HDPE)

Parameter	Value			
Molecular Formula	(-CH ₂ -CH ₂) _n			
Mol Wt	--			
CAS #	[9002-88-4]			
Description				
Property	Blow Mould	Pipe Extrude	Bottles	Film
Density at 25 deg cel (g/cc)	0.944-0.952	0.944 – 0.946	0.945 – 0.947	0.955 – 0.957
Melt Flow Index at 190 deg cel (g / 10 min)	0.8 to 1.2	0.4 to 0.5	1.0 max	0.2 to 0.4
Tensile Strength at yield (MPa, unless otherwise specified)	22 – 31	26 – 28	230-250 kg/cm ²	35 – 37
Elongation at yield (%)	9-12	--	10-12	--
Flexural Modulus (MPa)	700-1100	700-900	--	--
Impact Strength (J/m)	Non-breakable	No break	--	--
Vicat Soften Point (deg cel)	122-127	--	--	--
Elongation at break (%)	--	600 min	500 min	700-900
Thermal Stability at 200 deg cel (in min)	--	30 min	--	--

Uses

Industry	Applications
Polymer	In mfr of drums, bottles, extrusion pipes, blow and injection moulded containers and thin films