



HDPE(HIGH DENSITY POLYETHYLENE)/LUTENE-H®

Applica- tion	Grade	Melt index	Property*										Film property ** ***				Characteristics	Application
			Density @ 23°C	Vicat softening temperature	Tensile strength at yield	Tensile strength at break	Ultimate elonga- tion	Brittleness tempera- ture	Flexural modulus	Hardness	IZOD impact strength	ESCR	Tensile strength at break MD TD	Ultimate elongation MD TD	Dart impact resistance	Tear strength MD TD		
	ASTM	D1238	D1505	D1525	D638	D638	D638	D746	D790	D2240	D256	D1693	MD TD	MD TD	D1709	D1922		
	KS	M3012	M3016	M3076	M3012	M3012	M3012	M3059	-	-	-	-	M3001	M3001	A1028	M7016		
	Unit	g/10min	g/cm ³	°C	kg/cm ²	kg/cm ²	%	°C	kg/cm ²	-	kgcm/cm	F50 hrs	kg/cm ²	%	g	g		
Pipe	PD 0100	0.08	0.946	124	240	-	>800	<-80	8,000	62	>20	>3000	-	-	-	-	Excellent ESCR, good impact strength & creep strength property(PD 0100:PE100 class, PD0108:PE80 class)	Pressure pipe(drinking water pipes, gas pipes, discharge pipes, sewer pipes) and fitting
	PD 0108	0.15	0.944	124	240	-	>800	<-80	6,500	61	>20	>3000	-	-	-	-		
	PE 0150	0.12	0.958	127	320	-	>900	<-80	12,000	64	>20	50	-	-	-	-	Good impact strength and compress strength	General purpose pipes, discharge pipes
	PE 0235	0.25	0.952	129	270	-	>900	<-80	11,000	63	20	-	-	-	-	-	High creep resistance, excellent compressed ring ESCR	General purpose pipe
	PE0450UV	0.4	0.958	127	300	-	>900	<-80	12,000	64	12	-	-	-	-	-	High Speed extrusion, flexibility	CD pipe
	XL 1800	0.01	0.950	124	250	-	>900	<-80	10,000	60	NB	-	-	-	-	-	Excellent ESCR, good impact strength & creep strength property, granule type appearance and narrow particle size distribution	Chemically crosslinked pipe for floor heating processed by RAM type extrusion
XL 6500	5.5	0.948	120	230	-	>900	<-70	8,000	60	18	-	-	-	-	-	Good surface, processability degree of crosslinking	Silane-crosslinked pipe for floor heating	