



Typical Properties of Epolene® Polymers ^a

Product	Polymer Type	Ring & Ball Softening Point, °C	Mettler Drop Point, °C	Penetration Hardness, dmm	Density @ 25°C, g/cm ³	Acid No.	Brookfield Thermosel Viscosity, cP				Melt Index 190°C	Gardner Color	Molecular Weight		Cloud Point, °C ^c
							125°C (257°F)	140°C (284°F)	150°C (302°F)	190°C (374°F)			M _w	M _n	
ASTM Method		E-28	D-3954	D-1321	D-5	D1386	D-3226				D-1238(B)	D-1544			D2500
Coating Grade - Highly Branched Medium Molecular Weight															
C-10	PE	102	103	3	0.906	<0.05	18,600	16,650	8,200	3,550	2,250	1	23,830	6,900	77
C-13	PE	110	137	3	0.913	<0.05	-	-	-	-	190	1	68,275	11,381	81
C-15	PE	101	101	4	0.906	<0.05	8,950	6,100	4,200	1,800	4,200	1	20,198	5,937	75
C-16	Ma-PE	102	103	3	0.908	2	16,650	10,000	8,100	2,850	1,700	1	23,395	4,765	78
C-17	PE	133	>133	2	0.917	<0.05	- ^b	-	-	-	19	1	106,923	15,005	81
C-18	Ma-PE	101	101	4	0.905	2	7,750	5,000	4,100	1,550	4,200	1	17,447	4,881	71
C-19	Ma-PE	101	101	4	0.903	5	10,360	6,335	4,740	1,750	-	1	13,217	4,505	-
C-26	Ma-PE	122 ^e	133	<1	0.917	8	-	-	-	-	8	8	65,000	19,000	-
Nonemulsifiable - Low Molecular Weight															
N-10	PE	108	110	2	0.925	<0.05	1,500	1,100	-	-	-	1	10,137	2,947	82
N-11	PE	107	111	2	0.921	<0.05	350	250	-	-	-	1	5,441	1,405	80
N-14	PE	108	108	3	0.920	<0.05	150	100	-	-	-	1	3,746	1,327	80
N-15	PP	163	164	<1	0.902	<0.05	- ^b	- ^b	- ^b	700	-	1	22,763	10,585	104
N-21	PE	120	121	<1	0.950	<0.05	600	400	350	-	-	1	5,994	2,654	87
N-30	PE	110	110	2	0.924	<0.05	1,050	700	-	-	-	1	8,933	2,504	-
N-34	PE	104	104	5	0.910	<0.05	450	300	-	-	-	1	6,560	2,363	76
N-35	PE	104	104	3	0.913	<0.05	700	-	-	-	-	1	7,438	2,466	-
Emulsifiable - Oxidized Low Molecular Weight															
EE-2	Ox-PE	111	112	<1	0.960	17	1,500	900	-	-	-	1	5,560	1,295	-
E-10	Ox-PE	106	105	2	0.942	17	800	525	-	-	-	1	4,748	1,136	-
E-14	Ox-PE	104	104	4	0.939	17	375	-	-	-	-	1	3,226	887	-
E-14E	Ox-PE	104	104	4	0.939	17	225	160	-	-	-	1	2,765	825	-
E-16	Ox-PE	102	105	4	0.943	17	700	500	-	-	-	1	4,538	1,037	-
E-20	Ox-PE	111	112	<1	0.960	17	1,500	900	-	-	-	1	5,560	1,295	-
Chemically Modified PP															
E-25	Ma-PP	157 ^e	160	<1	0.921	25	- ^b	- ^b	- ^b	300	-	9	16,510	6,820	-
E-43	Ma-PP	158 ^e	160	<1	0.934	45	- ^b	- ^b	- ^b	300	-	9	15,789	7,105	-

^aTypical properties are reported for information only. These figures are average values for typical production material and should not be construed as specifications.

^bSolid at this temperature

^c2% in 54°C (130°F) paraffin

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^dNeedle under 100 ~ g load for 5s@ 23°C, tenths of mm

^eDSC T_m, °C

^fRun on pellets

