



## Typical Properties of *Epolene*® Polymers <sup>a</sup>

Product	Polymer Type	Mettler	Penetration	Density	Acid	Brookfield Thermosel Viscosity, cP				Melt	Gardner Color	Cloud Point, °C <sup>c</sup>
		Softening Point, °C	Hardness, dmm	@ 25°C, g/cm <sup>3</sup>		No.	125°C (257°F)	140°C (284°F)	150°C (302°F)	190°C (374°F)		
ASTM Method		D-3954	D-1321	D-4883	D1386	D-3226				D-1238	D-1544	D2500
<b>Coating Grade - Highly Branched Medium Molecular Weight</b>												
C-10	PE	103	3	0.906	<0.05	18,600	16,650	8,200	3,550	2,250	1	77
C-12	PE	118	2	0.907	<0.05	212,000	125,000	91,700	31,400	400	1	-
C-13	PE	137	3	0.913	<0.05	-	-	-	-	190	1	81
C-15	PE	101	4	0.906	<0.05	8,950	6,100	4,200	1,800	4,200	1	75
C-17	PE	>133	2	0.917	<0.05	- <sup>b</sup>	-	-	-	19	1	81
C-23	PE	108	3	0.909	<0.05	-	785,000	540,000	180,000	80	1	-
<b>Coating Grade - Functionalized with Maleic Anhydride</b>												
C-16	Ma-PE	103	3	0.908	2	16,650	10,000	8,100	2,850	1,700	1	78
C-18	Ma-PE	101	4	0.905	2	7,750	5,000	4,100	1,550	4,200	1	71
C-26	Ma-PE	133	<1	0.917	8	-	-	-	-	8	8	-
C-70 (dev.)	Ma-PE	123	<1	0.905	5	-	-	-	16,100	500	2	-
<b>Nonemulsifiable - Low Molecular Weight</b>												
N-10	PE	110	2	0.925	<0.05	1,500	1,100	-	-	-	1	82
N-11	PE	111	2	0.921	<0.05	350	250	-	-	-	1	80
N-14	PE	108	3	0.920	<0.05	150	100	-	-	-	1	80
N-15	PP	164	<1	0.902	<0.05	- <sup>b</sup>	- <sup>b</sup>	- <sup>b</sup>	700	-	1	104
N-21	PE	121	<1	0.950	<0.05	600	400	350	-	-	1	87
N-30	PE	110	2	0.924	<0.05	1,050	700	-	-	-	1	-
N-34	PE	104	5	0.910	<0.05	450	300	-	-	-	1	76
N-35	PE	104	3	0.913	<0.05	700	-	-	-	-	1	-
<b>Emulsifiable - Oxidized Low Molecular Weight</b>												
EE-2	Ox-PE	112	<1	0.960	17	1,500	900	-	-	-	1	-
E-10	Ox-PE	105	2	0.942	17	800	525	-	-	-	1	-
E-14	Ox-PE	104	4	0.939	17	375	-	-	-	-	1	-
E-14E	Ox-PE	104	4	0.939	17	225	160	-	-	-	1	-
E-16	Ox-PE	105	4	0.943	17	700	500	-	-	-	1	-
E-20	Ox-PE	112	<1	0.960	17	1,500	900	-	-	-	1	-
<b>Chemically Modified PP</b>												
E-43	Ma-PP	160	<1	0.934	45	- <sup>b</sup>	- <sup>b</sup>	- <sup>b</sup>	300	-	9	- <sup>d</sup>

<sup>a</sup>Typical properties are reported for information only. These figures are average values for typical production material and should not be construed as specifications.

<sup>b</sup>Solid at this temperature

<sup>c</sup>2% in 54°C (130°F) paraffin

<sup>d</sup>Needle under 100 ~ g load for 5s@ 25°C, tenths of mm

<sup>e</sup>DSC Tm, °C

<sup>f</sup>Run on pellets