Westlake Chemical Corporation

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Typical Properties of E*polene*® Polymers [a]

Product	Polymer Type	Mettler Softening Point, °C	Penetration Hardness, dmm	Density @ 25°C, g/cm³	Acid No.	Brookfield Thermosel Viscosity, cP 125°C (257°F)	140°C (284°F)	150°C (302°F)	190°C (374°F)	Melt Index 190°C	Gardner Color	Cloud Point, °C[c]
ASTM Method		D-3954	D-1321	D-4883	D1386	D-3226				D-1238	D-1544	D2500
Coating Grade - Highly Branched Medium Molecular Weight												
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	-[b]	-	-	-	19	1	81
C-23	PE	108	3	0.909	<0.05	-	785,000	540,000	180,000	80	1	-
Coating Grade - Functionalized with Maleic Annhydride												
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	-
Nonemulsifiable - Low Molecular Weight												
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	-[b]	-[b]	-[b]	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	-
Emulsifiable - Oxidized Low Molecular Weight												
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	-
Chemically Modified PP												
E-43	Ma-PP	160	<1	0.934	45	-[b]	-[b]	-[b]	300	-	9	- -

[a]Typical properties are reported for information only. These figures are average values for typical production material and should not be construed as specifications.

[b]Solid at this temperature

[c]2% in 54°C (130°F) paraffin

[d]Needle under 100 ~ g load for 5s@ 25°C, tenths of mm

[e]DSC Tm, °C

[f]Run on pellets

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