

## Basic Properties

ekosafe™  
biodegradable polymers

Properties	Unit (ASTM)	Film and Coating	Thermoforming	Injection	Low Tm Applications
Density	gm/cc	1.25	1.26	1.23	1.20
Tm (Melting Point)	°C	125	115	95	60
Heat Distortion Temperature	°C, D648	70	85-90	65-70	50
Vicat Softening Point	°C, D1525	94.2	108.1	85.8	
Tc (Crystallization Temperature)	°C	57~62	75	50~56	25
Tg (Glass Transition Temperature)	°C	-70	-36	-43	-70
Initial Decomposition Temperature	°C	290	240	245	240
MI (2,160gm @100°C)	gm/10min	2.5	1.4	1.8	5
Heat Of Combustion	kcal/kg	5,500			
Haze	%	48 (60μ film)	-	35 (30μ film)	-
Gloss (45°)	-	41 (60μ film)	-	50 (30μ film)	-
Tensile Strength at Break	MPa	MD/TD >35/>30	>30	MD/TD >45/>45	MD/TD >35/>35
Elongation at Break	%	MD/TD >250/>750	>200	MD/TD >600/>600	MD/TD >400/>600
Tear Strength	kg/cm	MD/TD >110/>130	>150	MD/TD >150/220	MD/TD >150/>220
Surface Resistivity	Ω	9.4 x 10 <sup>13</sup>	1.2 x 10 <sup>14</sup>	7.5 x 10 <sup>13</sup>	7.6 x 10 <sup>13</sup>
Volume Resistivity	Ω.cm	7.0 x 10 <sup>14</sup>	1.1 x 10 <sup>16</sup>	7.1 x 10 <sup>14</sup>	7.0 x 10 <sup>14</sup>

Products that meet EN 13432 & ASTM D 6400 norms.

※ For films, the thickness is 30 micro, for others it is 2mm sheet

※ The data in this table are typical laboratory averages.