

# Evolve® (Cast Film) Product Data Sheet

Prime Polymer Co.,Ltd.

Testing Items		Unit	Testing Method *1			Film (Cast)					
			JIS K	ISO	ASTM	SP0540	SP1540	SP2040	SP2540	SP3530	SP4030
General Physical Properties	Melt Index	g/10min	7210	1133		3.8	3.8	3.8	3.8	3.2	3.8
	Density	kg/m <sup>3</sup>	7112	1183		903	913	918	923	931	938
Mechanical Properties	Tensile Stress At Yield	MPa	7161 7162	527-1 527-2		-	-	-	10	13	15
	Tensile Stress At Break	MPa				>16	>18	>19	>20	16	>16
	Elongation At Break	%				>500	>500	>500	>500	360	>500
	Flexus Modulus	MPa	7171	178		120	190	220	270	430	600
	Charpy Impact Strength	kJ/m <sup>2</sup>	7111	179-1		NB	NB	NB	NB	NB	NB
	Shore D Hardness	—	7215	868		49	54	55	56	58	61
Chemical Properties	E.S.C.R	hours	—	—	D1693	>1000	>1000	>1000	>1000	>1000	>1000
Thermal Properties	Vicat Softening Point	°C	7206	306		83	96	101	106	110	114
	Melting Point	°C	7121	11357-3		98	113	116	120	123	127
Characteristics						Very Low Heat Seal Temp.	Low Heat Seal Temp.	Low Heat Seal Temp.	Stiffness	Stiffness	Stiffness
						High Impact Strength	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability
											Chemical Resistance
Main Application						Lamination Film	Lamination Film	Lamination Film	Lamination Film	Lamination Film	Lamination Film
						Stretch Film	Stretch Film	Stretch Film			Storage Tank

\*1) Specimen preparation according to JIS K7151 (ISO293) and 7152 (ISO294) (Load at 2.16kg)  
 Melt Index above 1g/10min: Injection molding specimen  
 Melt Index below 1g/10min: Pressed sheet specimen

- ◇ Statistics shown in the information are typical data tested under specific conditions.
- ◇ Applications usage that is mentioned in the information might not be the usage of specified grade in the end product.
- ◇ Pertaining to the usage and application recommendation information, please note the rights of the patentees.
- ◇ In the usage of medical utensile and medicinal products, please be advised to have further consultation.
- ◇ Please understand that the information provided herein is subjected to change without prior notice.