

Evolve® (Blown Film•Extrusion) Product Data Sheet

Prime Polymer Co.,Ltd.

Testing Items		Unit	Testing Method ^{*1}			Film (Blown)							Extrusion Molding			
			JIS K	ISO	ASTM	SP2320	SP2320H	SP2520	SP2520H	SP2510	SP3010	SP4020	SP1071C	SP2030	SP2530S	
General Physical Properties	Melt Index	g/10min	7210	1133		1.9	1.9	1.9	1.9	1.5	0.8	1.8	10	2.5	2.6	
	Density	kg/m ³	7112	1183		920	920	925	925	923	926	937	910	922	924	
Mechanical Properties	Tensile Stress At Yield	MPa	7161 7162	527-1 527-2		-	-	-	-	-	13	17	-	-	-	
	Tensile Stress At Break	MPa				19	19	20	20	20	>25	>24	>15	18	18	
	Elongation At Break	%				350	350	350	350	350	>500	>500	>500	390	390	
	Flexus Modulus	MPa	7171	178		240	240	320	320	260	490	560	150	260	240	
	Charpy Impact Strength	kJ/m ²	7111	179-1		NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
	Shore D Hardness	-	7215	868		55	55	56	56	56	54	58	51	56	56	56
Chemical Properties	E.S.C.R	hours	-	-	D1693	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000
Thermal Properties	Vicat Softening Point	°C	7206	306		101	101	105	105	103	106	117	87	101	101	
	Melting Point	°C	7121	11357-3		118	118	122	122	121	124	127	100	122	122	
Characteristics						Low Heat Seal Temp.	Low Heat Seal Temp.	Stiffness	Stiffness	Stiffness	Stiffness	Stiffness	Low Heat Seal Temp.	Cross-linking Property	Stiffness	
						Clarity	Clarity	Optical Property	Optical Property	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability			
						High Speed Mouldability	High Speed Mouldability	High Speed Mouldability	High Speed Mouldability							
Main Application						Lamination Film	Lamination Film	Lamination Film	Lamination Film	Shopping Bag	Heavy Duty Bag	Lamination Film	Food Packaging	Electrical Wire	Tube	
						Industrial Film	Industrial Film	Industrial Film	Industrial Film	Industrial Film		Industrial Film	Liquid Packaging			
						Agricultural Film	Agricultural Film	Agricultural Film	Agricultural Film	Medium Size Packaging						
						Water Quenching Blown Film	Water Quenching Blown Film	Water Quenching Blown Film	Water Quenching Blown Film							

*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.