PRIME POLYMER
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HI-ZEX® (Injection) Product Data Sheet

Prime Polymer Co.,Ltd.

Testing Items		Unit	Testing Method *1			Injection Molding					
			JIS K	ISO	ASTM	1300J	2100J	2100JH	2110JH	2200J	2208J
General Physical Properties	Melt Index	g/10min	7210	1133		12	5.8	9.0	9.0	5.2	5.2
	Density	kg/m^3	7112	1183		961	953	952	952	964	964
Mechanical Properties	Tensile Stress At Yield	MPa	7161 7162	527-1 527-2		27	21	21	21	28	28
	Elongation At Break	%				>500	370	310	310	>500	>500
	Tensile Modulus	MPa				1100	900	850	810	1100	1100
	Flexus Modulus	MPa	7171	178		1200	900	850	810	1300	1200
	Charpy Impact Strength	kJ/m^2	7111	179-1		4	4	5	5	7	7
	Shore D Hardness	—	7215	868		65	63	62	62	65	65
Chemical Properties	E.S.C.R	hours	—	—	D1693	3	8	16	16	4	4
Thermal Properties	Vicat Softening Point	℃	7206	306		126	121	122	122	130	130
	Melting Point	℃	7121	11357-3		134	131	131	131	135	135
Characteristics						Flowability	Mechanical Strength	Stress Cracking Resistance	Stress Cracking Resistance	Stiffness	Stiffness
						Stiffness		Exterior Outlook	Exterior Outlook		Weather Resistance
Main Application						Daily Necessities	Industrial Parts	Industrial Parts	Industrial Parts	Industrial Parts	Container
						Industrial Parts	Cap			Daily Necessities	Pallet
											Daily Necessities

*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.