

HI-ZEX[®] (Extrusion) Product Data Sheet

Testing Items		Unit	Testing Method *1			Extrusion Molding								
			JIS K	ISO	ASTM	5000S	5000SR	5000SF	6800S	5000H	6300M	5305E	7800M	5100E
General Physical Properties	Melt Index	g/10min	7210	1133		0.82	0.37	0.66	0.3	0.10	0.11	0.80	0.04	0.2
	Density	kg/m ³	7112	1183		950	955	956	951	958	951	951	954	943
Mechanical Properties	Tensile Stress At Yield	MPa				27	26	27	27	29	23	24	28	21
	Elongation At Break	%	7161 7162	527-1 527-2		450	>500	>500	>500	>500	>500	440	>500	>500
	Tensile Modulus	MPa				1100	1200	1200	1200	1400	1000	1100	1200	780
	Flexus Modulus	MPa	7171	178		1200	1300	1300	1200	1400	1100	1000	1200	780
	Charpy Impact Strength	kJ/m ²	7111	179-1		14	12	6	14	9	17	6	NB	NB
	Shore D Hardness	—	7215	868		63	64	65	63	64	62	62	65	60
Chemical Properties	E.S.C.R	hours	—	—	D1693	30	150	100	100	>600	>600	>600	>600	>600
Thermal Properties	Vicat Softening Point	°C	7206	306		123	124	124	123	125	122	122	124	118
	Melting Point	°C	7121	11357-3		131	132	132	131	132	131	130	132	128
Characteristics						Processibility	Processibility	Processibility	Mechanical Strength	Stiffness	Chemical Resistance	High Speed Mouldability	High Impact Strength	Processibility
							Mechanical Strength	Mechanical Strength			Stress Cracking Resistance	Stress Cracking Resistance	Stress Cracking Resistance	Stress Cracking Resistance
										Creep Property				
Main Application						Net	Clothes	Tape	Net	Sheet	General Water Pipe	Communication Cable	High Voltage Pipe With Lid	Cable Coating
						Rope	Net	General Packaging	Rope	Industrial Parts	Pipe for Electrical Cable Wiring			Pipe coating
						Tape	Tape		Tape		Water Pipe			

*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.