Polybutene / Nisseki Polybutene

Nisseki Polybutene is a series of isobutylene and nbutylene polymers composed of isobutylene predominantely.

It has a molecular structure of long chain carbon hydride. Nisseki Polybutene is very stable under normal condition.

It is also transparent, impurities free and nontoxic liquid polymer.

Packaging	Lorry, ISO container, IBCs (Intermediate Bulk Containers) (850kg), Drum, Oil Can (15kg)
Main Application	Adhesive Caulking and sealing compound Lubricant (Compressor oil, lubricating oil additive, engine oil, etc.) Electrical insulation oil Rubber, wax, asphalt improvement compound Ink thickening dispersant Chewing gum base component

Table　Typical properties of NISSEKI POLYBUTENES

項目 ITEM / グレード GRADE	LV-7	LV-50	LV-100	HV-15	HV-35	HV-50	HV-100	HV-300	HV-1900	試験法 Test Method
数平均分子量　Number averaged Molecular weight (V,P,O)	300	430	500	630	750	800	980	1,400	2,900	JXE法*1 JXEmethod
動 粘 度　Kinematic Viscosity (40℃,mm²/s)	12.1	110	205	655	2,300	3,450	9,500	26,000	160,000	JIS K-2283
動 粘 度　Kinematic Viscosity (100℃,mm²/s)	2.7	9.5	14	31	85	110	220	590	3,710	JIS K-2283
粘度指数　Viscosity Index (100℃,mm²/s)	33	43	46	67	96	98	107	155	257	JIS K-2283
密 度　Density (15℃, g/cm³)	0.830	0.851	0.856	0.870	0.880	0.884	0.890	0.898	0.910	JIS K-2249
引 火 点　Flash Point (C,O,C ℃)	140	150	160	160	180	180	210	230	250	JIS K-2265
色 Color (Saybolt)	>+18	>+18	>+18	>+18	>+18	>+18	>+18	>+18	>+18	JIS K-2580
全 酸 価　Total Acid Value (mgKOH/g)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	全酸価試験法 Total acid number test
流 動 点　Pour Point (℃)	-55	-35	-32.5	-20	-15	-12.5	-7.5	0	17.5	JIS K-2269
水 分　Water Content (Wtppm)	20	20	20	10	10	10	10	10	10	希釈法 Dilution method
硫 黄 分　Sulphur (Wtppm)	<1	<1	<1	<1	<1	<1	<1	<1	<1	JIS K-2541
誘電正接　Power Factor (%) (80℃)	—	—	—	0.01	0.01	—	0.01	0.01	—	JIS C-2101
体積抵抗率　Volume Resistivity (80℃)	—	—	—	5×10¹⁴	5×10¹⁴	—	5×10¹⁴	5×10¹⁴	—	JIS C-2101
比誘電率　Dielectric Constant (80℃)	—	—	—	2.15	2.16	—	2.18	2.19	—	JIS C-2101
絶縁破壊電圧　Dielectric Strength (KV/2,5mm)	—	—	—	50	50	—	50	50	—	JIS C-2101

＊1 JXE法：ENEOS Insternal Test Method