

Ethylene-Vinyl Acetate copolymer

Nipoflex®



Properties	Test Method		Unit	514R	515	510	520F	540	537	541	539	530	526	630	631	636	625	626	627	628	638	
	JIS K 6924-1	ISO 4613-1		510F	540F	537L	541L	537S-2														
Melt Index	JIS K 6924-1	ISO 4613-1	g/10min	0.41	2.5	2.5	2.0	3.0	8.5	9.0	28	75	25	1.5	1.5	2.5	14	3.0	0.80	1.3	13	
Vinyl Acetate Content	JIS K 6924-1	ISO 4613-1	%	5	6	6	8	10	6	10	6	6	7	15	20	19	15	15	20	20	20	
Density	JIS K 6924-2	ISO 4613-2	kg/m ³	925	925	928	927	929	925	929	924	923	925	936	941	941	935	936	941	942	940	
Tensile Strength @ Braek	JIS K 6924-2	ISO 4613-2	MPa	>18	>16	>16	>16	>15	14	>14	10	7	11	>15	>14	>13	>12	>14	>15	>15	>10	
	TOSOH		MPa	18	15	15	15	14	13	13	10	8	11	15	18	15	12	15	19	25	11	
Elongation @ Break	JIS K 6924-2	ISO 4613-2	%	>620	>660	>680	>640	>630	660	>670	530	460	620	>590	>590	>590	>640	>610	>570	>580	>630	
	TOSOH		%	700	700	700	700	700	700	700	650	600	650	700	800	800	800	700	800	800	800	
Modulus of Elongation	JIS K 6924-2	ISO 4613-2	MPa	140	130	140	100	80	120	80	110	100	90	60	40	40	50	50	40	40	40	
Flexural Modulus	JIS K 6924-2	ISO 4613-2	MPa	150	130	150	100	80	120	80	120	100	90	60	40	40	50	50	40	40	30	
Hardness (Shore A)	JIS K 7215	ISO 868		97	97	97	97	96	96	96	96	97	97	94	92	92	94	94	93	92	91	
Melting Point (DSC)	JIS K 6924-2	ISO 4613-2	℃	101	99	101	96	94	98	93	97	96	95	88	82	82	87	88	83	83	81	
Vicat Softing Point	JIS K 7206	ISO 306	℃	84	80	84	75	72	77	70	73	69	69	67	58	58	59	65	59	63	53	
Low Temperature Brittleness	JIS K 7216		℃	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	
Test Piece	JIS K 6924-2	ISO 4613-2	-	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	Compres sion	
Main Applications	Injection Molding								●	●	●	●	●				●				●	
	Sheet/Tube Extrusion			●	●	●		●						●	●	●		●	●	●		
	Foaming				●	●		●						●	●	●		●	●	●		
	Hot-melt Adhesive											●										
	Extrusion Coating									●	●						●					●
	Brown-film Extrusion			●	●	●	●	●						●	●			●	●			

●F...Film ●L...Extrusion Coating & Laminating

NOTE: These data are presented to describe Nipoflex and are not intended as specifications.

Ethylene-Vinylacetate copolymer

Nipoflex®



Properties	Test Method		Unit	635	640	634	633	680	681	684	685	751	710	720	722	725	735	750	752	760	High VA / Low MI Type	
Melt Index	JIS K 6924-1	ISO 4613-1	g/10min	2.4	2.8	4.3	20	160	350	2000	2500	5.7	18	150	400	1000	1000	30	60	70	0.20	
Vinyl Acetate Content	JIS K 6924-1	ISO 4613-1	%	25	25	26	20	20	20	20	14	28	28	28	28	28	28	32	32	42	32	
Density	JIS K 6924-2	ISO 4613-2	kg/m ³	948	948	949	940	936	934	930	924	952	949	947	944	942	950	954	955	968	956	
Tensile Strength @ Break	JIS K 6924-2	ISO 4613-2	MPa	>13	>12	>11	>10	>6	4	2	3	>9	>7	>4	2	1	2	>4	>3	>1	>10	
	TOSOH		MPa	29	20	14	11	5	3	2	3	17	9	4	2	1	2	7	6	6	20	
Elongation @ Break	JIS K 6924-2	ISO 4613-2	%	>560	>570	>580	>640	>770	730	120	80	>600	>640	>760	750	220	310	>680	>700	>750	>570	
	TOSOH		%	800	800	800	800	700	700	200	150	850	800	900	800	300	500	1000	1000	1400	700	
Modulus of Elongation	JIS K 6924-2	ISO 4613-2	MPa	20	20	20	30	20	20	10	20	20	10	10	10	5	10	5	5	1	10	
Flexural Modulus	JIS K 6924-2	ISO 4613-2	MPa	20	20	20	30	20	20	10	30	20	10	10	10	5	10	5	5	1	10	
Hardness (Shore A)	JIS K 7215	ISO 868		88	85	86	91	85	85	79	85	82	80	73	69	67	79	71	70	49	76	
Melting Point (DSC)	JIS K 6924-2	ISO 4613-2	°C	77	75	74	81	78	76	70	77	70	69	67	65	60	67	64	59	<50	61	
Vicat Softening Point	JIS K 7206	ISO 306	°C	51	49	46	51	<40	<40	<40	<40	42	40	<40	<40	<40	<40	<40	<40	<40	40	
Low Temperature Brittleness	JIS K 7216		°C	<-70	<-70	<-70	<-70	-50	-30	-30	-24	<-70	<-70	-60	-50	-40	-35	<-70	<-70	<-70	<-70	
Test Piece	JIS K 6924-2	ISO 4613-2	-	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	
Main Applications	Injection Molding						●						●									
	Sheet/Tube Extrusion			●	●	●							●	●				●				●
	Foaming			●	●	●																
	Hot-melt Adhesive							●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Extrusion Coating							●														
	Ink																					

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