

NOVATEC™ LD

LD-1

2022/10/16

			Film											
BASIC PROPERTIES	Unit	Method	LF128	LF129	LF161	LF280H	LF280	LF240	LF244E	LF245E	LF246E	LF342M1	LF480M	LF441MD1
Melt Flow Rate	g/10min	ISO 1872-2	0.25	0.3	0.4	0.7	0.7	0.7	0.7	0.7	0.7	1.0	2.0	2.0
Density	g/cm ³	ISO 1872-1,2	0.922	0.922	0.928	0.928	0.928	0.924	0.924	0.924	0.924	0.924	0.930	0.924
Tensile Strength at Break	MPa	ISO 1872-2	–	–	–	–	–	–	–	–	–	15	13	13
Tensile Strain at Break	%	ISO 1872-2	>400	>400	>400	>400	>400	>400	>400	>400	>400	–	–	–
Nominal Tensile strain at Break	%	ISO 1872-2	–	–	–	–	–	–	–	–	–	100	100	100
Flexural Modulus	MPa	ISO 1872-2	260	260	370	370	370	310	290	290	290	170	250	160
Charpy Impact Strength	kJ/m ²	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m ²	ISO 1872-2	210	210	180	180	180	190	190	190	190	230	200	230
Durometer Hardness (Type D)	(HDD)	ISO868	52	53	55	55	55	53	53	53	53	53	55	52
Vicat Softening Temperature	℃	ISO 868	96	95	104	103	103	97	96	96	96	98	105	98
Melting Point	℃	ISO 11357-3	111	111	115	115	115	114	113	113	113	113	115	113
Brittleness Temperature	℃	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Injection	Injection	Injection
Application			●Shrink-wrapping	●Shrink-wrapping	●General Packaging	●Automatic packaging	●Automatic packaging ●For blending	●Shrink-wrapping ●For blending	●Automatic packaging (Rice, sugar)	●Automatic packaging (Rice, Sugar)	●Automatic packaging (Salt)	●Liquied Packaging ●Industrial Parts	●Automatic packaging (Paper, cotton)	●General Packaging
PL confirmation certificate for food applications (JPN)			Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved

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- Before using the product herein, the users should make their own determination of the suitability (quality, safety, legal, intellectual property rights etc.) of such products for the intended use.
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NOVATEC™ LD

LD-2

2022/10/16

			Film						Blow/Extrusion molding		
BASIC PROPERTIES	Unit	Method	LF448K1	LF441A	LF441B	LF440B	LF581X	LF640MA	ZE41KK	LB240	LB420M
Melt Flow Rate	g/10min	ISO 1872-2	2.0	2.0	2.0	2.8	4.0	5.0	0.7	0.7	0.7
Density	g/cm ³	ISO 1872-1,2	0.925	0.924	0.924	0.925	0.933	0.924	0.922	0.924	0.922
Tensile Strength at Break	MPa	ISO 1872-2	13	14	13	12	12	12	–	–	–
Tensile Strain at Break	%	ISO 1872-2	–	–	–	–	–	–	>400	>400	>400
Nominal Tensile strain at Break	%	ISO 1872-2	100	100	100	100	120	100	–	–	–
Flexural Modulus	MPa	ISO 1872-2	180	160	160	190	260	160	280	310	280
Charpy Impact Strength	kJ/m ²	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m ²	ISO 1872-2	210	210	230	200	180	200	200	190	200
Durometer Hardness (Type D)	(HDD)	ISO868	52	53	52	52	56	50	52	53	52
Vicat Softening Temperature	°C	ISO 868	97	98	98	98	105	99	93	97	93
Melting Point	°C	ISO 11357-3	115	114	114	113	116	113	111	113	111
Brittleness Temperature	°C	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Injection	Injection	Injection	Injection	Injection	Injection	Compression	Compression	Compression
Application			●General Packaging	●Protection film	●For blending	●For blending	●Water cooling film	●General Packaging (thin film)	●Blow bottles	●Blow bottles	●Blow bottles
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			Extrusion Coating								Injection Molding					
BASIC PROPERTIES	Unit	Method	LC520	LC522	LC600A	LC607K	LC602A	LC604	LC720	LC605Y	LJ802	LJ803	LJ902	LJ8041	LJ802A	LJ920
Melt Flow Rate	g/10min	ISO 1872-2	3.6	4	7	8	8.2	8.4	9.4	7.3	22	22	45	23	27	58
Density	g/cm ³	ISO 1872-1,2	0.923	0.923	0.918	0.919	0.919	0.918	0.922	0.918	0.918	0.921	0.915	0.918	0.919	0.923
Tensile Strength at Break	MPa	ISO 1872-2	13	13	11	11	11	11	11	11	11	11	10	11	10	10
Tensile Strain at Break	%	ISO 1872-2	–	–	–	–	–	–	–	–	>400	>400	>400	>400	300	300
Nominal Tensile strain at Break	%	ISO 1872-2	100	100	100	100	100	100	100	100	–	–	–	–	–	–
Flexural Modulus	MPa	ISO 1872-2	170	170	120	120	120	120	160	120	150	160	110	170	130	190
Charpy Impact Strength	kJ/m ²	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m ²	ISO 1872-2	210	210	200	200	190	190	170	200	150	140	130	150	160	130
Durometer Hardness (Type D)	(HDD)	ISO868	52	52	50	50	50	50	51	50	47	47	43	47	45	48
Vicat Softening Temperature	°C	ISO 868	96	96	87	89	89	86	91	87	81	84	74	79	82	87
Melting Point	°C	ISO 11357-3	111	111	106	107	107	106	110	106	105	106	103	122	104	108
Brittleness Temperature	°C	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection
Application			●Converted paper	●Converted paper	●Flexible packaging	●Flexible packaging ●Converted paper	●Flexible packaging ●Paperboard	●Flexible packaging ●Paperboard	●Woven-cloth material	●Flexible packaging	●Closure	●Injection	●Injection	●Closure ●Inner cap	●Closure	●Food container
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