NOVATEC ™ LL

Japan Polyethylene Corporation

2022/10/16

			Film											
BASIC PROPERTIES	Unit	Method	UF420	UF421	UF524	UF622	UF230	UF320	UF332	UA421	UF240	UF442	UF641	UF943	UH412
M F R	g/10min	ISO 1872-2	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	2.1	1.7	2.1	2.1	0.3
Density	g/cm^3	ISO 1872-1,2	0.924	0.926	0.926	0.927	0.921	0.922	0.923	0.924	0.920	0.924	0.927	0.938	0.924
Tensile Strength at Yield	MPa	ISO 1872-2	12	12	12	12	8	12	9	11	9	9	10	15	12
Nominal Tensile Strain at Break	%	ISO 1872-2	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400
Flexural Modulus	MPa	ISO 1872-2	380	410	410	410	200	380	210	370	200	250	290	450	390
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
Tensile Impact Strength	kJ/m^2	ISO 1872-2	240	240	240	240	280	240	260	260	230	180	240	250	350
Durometer Hardness (Type D)	(HDD)	ISO 868	54	57	57	57	50	54	51	54	49	52	53	62	56
ESCR at Continuous Strain	h	ASTM D1693	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000
Vicat Softening Temperature	℃	ISO 306	104	107	107	107	102	104	104	104	102	102	105	117	104
Melting Point	℃	ISO 11357-3	123	124	124	124	121	123	122	123	123	123	124	127	123
Brittleness Temperature	℃	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Compression	Compression	Compression	Compression	Injection	Compression	Injection	Injection	Injection	Injection	Injection	Injection	Compression
Application			●Blown Film Middle-Heavy duty bags	●Blown Film Light Duty Package	●Automatic packaging (Rice)	●Automatic packaging (Suger)	●For blending	●For blending	●Blown Film Light Duty Package	●Agricultural Mulch Film	●For blending	●Blown Film General Packaging ●T-die film	●Dry Lamination ●Low FE	●Dry Lamination ●Low FE	●Heavy Duty Bag (Antistatic)
PL confirmation certificate for food applications (JPN)			Approved	Approved	Approved	Approved	Approved	Approved	Approved	Unapproved	Approved	Approved	Approved	Approved	Approved

- The information on this document shows typical properties and characteristics only and is intended as guide, not as specifications.
- 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.
- The product on this sheet may be not suitable for pharmaceutical or medical applications. When you use the product for such applications, please be sure to have a consultation with us in advance about your use.
- Please consult our company about applications in the food-contacting articles or durable goods.
- Please understand that this information provided herein might be changed without a previous notice.

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			Injection							Rotational Molding
BASIC PROPERTIES	Unit	Method	UJ960	UJ370	UJ580	UJ480	UJ990	UJ790	UJ890	UR951
M F R	g/10min	ISO 1872-2	**5**	**16**	**20**	**30**	**35**	**50**	**105**	**3.5**
Density	g/cm^3	ISO 1872-1,2	**0.935**	**0.921**	**0.925**	**0.923**	**0.937**	**0.928**	**0.931**	**0.938**
Tensile Strength at Yield	MPa	ISO 1872-2	**13**	**8**	**10**	**9**	**14**	**11**	**12**	**15**
Nominal Tensile Strain at Break	%	ISO 1872-2	**>400**	**>400**	**>400**	**>400**	**170**	**170**	**90**	**>400**
Flexural Modulus	MPa	ISO 1872-2	**500**	**230**	**310**	**290**	**550**	**380**	**420**	**580**
Charpy Impact Strength	kJ/m^2	ISO 1872-2	**No-Break**	**No-Break**	**No-Break**	**No-Break**	**6**	**No-Break**	**6**	**No-Break**
Tensile Impact Strength	kJ/m^2	ISO 1872-2	**150**	**130**	**120**	**110**	**–**	**90**	**–**	**160**
Durometer Hardness (Type D)	(HDD)	ISO 868	**56**	**48**	**50**	**49**	**56**	**52**	**53**	**57**
ESCR at Continuous Strain	h	ASTM D1693	**150**	**15**	**4**	**3**	**1**	**2**	**–**	**>500**
Vicat Softening Temperature	℃	ISO 306	**112**	**87**	**91**	**87**	**103**	**90**	**88**	**114**
Melting Point	℃	ISO 11357-3	**125**	**120**	**121**	**121**	**124**	**122**	**122**	**126**
Brittleness Temperature	℃	ISO 974	**<-70**	**<-70**	**<-70**	**<-70**	**<-70**	**<-70**	**<-70**	**<-70**
Test Specimens			Injection	Injection	Injection	Injection	Injection	Injection	Injection	Injection
Application			●Industrial Parts	●Injection	●Cap ●Inner Cap	●Cap ●Inner Cap	●Lid	●Lid	●Thin Lid	●Tank
PL confirmation certificate for food applications (JPN)			Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved

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