

# UNILAX P grade CPP film for bread packaging

White bread twist packaging grade film with the excellent heat sealability needed for hot blade and sweet bread twist packaging grade film, making it perfectly suitable for transverse pillow packaging applic

Grade		CPP film			Bio CPP film			Test method
		UNILAX P-135C	UNILAX P-160C	UNILAX P-195C	UNILAX P-137C	UNILAX P-167C	UNILAX P-197C	
Application		White bread twist packaging	Sweet bread pillow packaging	White bread twist packaging (matte grade)	White bread twist packaging	Sweet bread pillow packaging	White bread twist packaging (matte grade)	JIS Z 1702
Characteristics		Easy-opening	—	Easy-opening	Easy-opening	Easy-opening	Easy-opening	
Thickness(μm)		30	30	30	27	27	27	JIS K 7128
Tensile modulus (MPa)	MD	970	1,250	1,030	900	640	720	
	TD	950	1,200	1,020	860	620	700	
Tensile strength (MPa)	MD	74	65	63	67	61	60	
	TD	44	40	39	38	32	40	
Tensile elongation (%)	MD	560	470	510	710	900	800	
	TD	680	590	580	910	1000	980	
Tear strength (N/cm)	MD	40	35	40	—	—	—	
	TD	800	1,200	1,000	—	—	—	
Impact strength(J/m)		27,000	22,000	25,000	4,300	15,000	19,000	Idemitsu method※1
Haze(%)		4.0	3.8	51.0	5.1	4.1	53.0	JIS K 7105
Seal temperature(°C) ※2		—	123	—	—	115	—	Idemitsu method※2
Static friction coefficient (tanθ)	corona /corona	0.13	0.22	0.25	0.15	0.10	0.32	Idemitsu method (gradient method)
	Seal/Seal	0.11	0.11	0.11	0.15	0.12	0.10	
Standard thickness (μm)		30	30	30	27	27	27	
巻き内面 層内イメージ図 巻き外面	Printing surface (corona-processed)	Printing surface (corona-processed)	Printing surface (corona-processed)	Printing surface (corona-processed)	Printing surface (corona-processed)	Printing surface (corona-processed)	Printing surface (corona-processed)	-
	CoPP	PP	Special PP	CoPP	PP	Special PP		
	PP	PP	PP	PP	PP	PP		
	Special PP	CoPP	Special PP	Special PP	CoPP	Special PP		
Sealing surface		Sealing surface	Sealing surface	Sealing surface	Sealing surface	Sealing surface	Sealing surface	
Winding length(m)		4000m	4000m	4000m	4000m	4000m	4000m	

※1 14.7N・m、1.0 inch head

※2 Seal temperature: heat gradient seal tester 0.2 MPa (2kg/cm<sup>2</sup>), 1.0 sec.

※ Data described in this document is a representative example of measured values under specific conditions.

※ Contents of this document are subject to change without prior notice due to product improvement.

※ It is produced in an ISO9001 certified factory.

**Idemitsu Unitech Co.,Ltd.**