UmaPET HF

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES
UmaPET HF is slightly hazy film with plain surface in both sides having excellent slip and high break down voltage.
The film possesses good thermal, mechanical and surface properties along with excellent dimensional stability.
APPLICATIONS
The film is widely used for cable wrapping and other electronic insulation applications.
This film is suitable for paper lamination, roofing and other industrial & release applications

General Information			
Features	Good Dimensional Stability		
	Good Surface Finish		
	Slip		
Uses	Cable Jacketing		
	Electrical/Electronic Applications		
	Film		
	Industrial Applications		
	Laminates		
	Packaging		
	Release Paper		
Appearance	Translucent		
Forms	Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0360 mm	2.0	%	
Flow : 150°C, 30 min, 0.0500 mm	2.0	%	
Flow : 150°C, 30 min, 0.0750 mm	1.6	%	
Across Flow : 150°C, 30 min, 0.0360 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0500 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0750 mm	0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic [1]	0.32		
vs. Itself - Dynamic [2]	0.35		
vs. Itself - Dynamic [3]	0.35		
vs. Itself - Static [4]	0.40		
vs. Itself - Static [5]	0.40		
vs. Itself - Static [6]	0.35		

Films	Nominal Value	Unit	Test Method
	36		
	50		
Film Thickness - Tested	75	µm	
Film Thickness - Recommended / Available	36, 50, 75 µm		
Tensile Strength			ASTM D882
MD : Break, 36 µm	177	MPa	
MD : Break, 50 µm	167	MPa	
MD : Break, 75 µm	167	MPa	
TD : Break, 36 µm	186	MPa	
TD : Break, 50 µm	177	MPa	
TD : Break, 75 µm	177	MPa	
Tensile Elongation			ASTM D882
MD : Break, 36 µm	130	%	
MD : Break, 50 µm	140	%	
MD : Break, 75 µm	150	%	
TD : Break, 36 µm	120	%	
TD : Break, 50 µm	130	%	
TD : Break, 75 µm	130	%	
Yield			Internal Method
36.0 µm	19.8	m^2/kg	
50.0 µm	14.3	m^2/kg	
75.0 µm	9.50	m^2/kg	
Breakdown Voltage			ASTM D149
36.0 µm	8000	V	
50.0 µm	10000	V	
75.0 µm	12000	V	
Wetting Tension - Plain side			ASTM D2578
36.0 µm	44	dyne/cm	
50.0 µm	44	dyne/cm	
75.0 µm	44	dyne/cm	

Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
36.0 µm	7.0	%	
50.0 µm	8.0	%	
75.0 µm	9.0	%	

NOTE

1.	75 µm
2.	50 µm
3.	36 µm
4.	36 µm
5.	50 µm
6.	75 µm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China