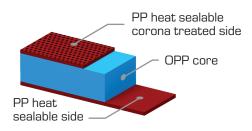
# TATRAFAN 🛷 KXLFE

## HEAT SEALABLE COEXTRUDED BOPP FILM WITH IMPROVED SLIP PROPERTIES

### **Description and Application**

- Both-side heat sealable. One side corona treated.
- Transparent film with excellent optical properties (low haze, high gloss)
- Excelent slip properties (tailored for high slip performance)
- Good barrier properties (moisture,odor), and antiblocking properties.
- Typical applications: Print and lamination. Packaging of various food products, confectioneries, and textiles. High speed packoging of napkins, and similar products.





$\begin{tabular}{ c c c c } \hline $$ PROPERTIES $$ TEST METHOD $$ UNITS $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$$				
tolerance         DIN 53370 $m^{2}$ $= \pm 5$ Unit weight tolerance         Internal method $g/m^{2}$ 19.2         22.8         27.3         31.9           Yield $m^{2}/kg$ 54.9         43.9         36.6         31.3           Tensile strength MD (min.) $N/mm^{2}$ $54.9$ 43.9         36.6         31.3           Tensile strength MD (min.)         DIN EN ISO $N/mm^{2}$ $= 527.1/3$ 130°C           MD (max.)         DIN EN ISO $= 527.1/3$ $= 65$ $= 55$ MD (max.) $= 527.1/3$ $= 65$ $= 55$ $= 55$ MD (max.) $= 130^{\circ}C, 15min$ $= 65$ $= 55$ $= 55$ MD (max.) $= 130^{\circ}C, 15min$ $= 65$ $= 55$ $= 55$ MD (max.) $= 130^{\circ}C, 15min$ $= 65$ $= 55$ $= 55$ Water vapour         ASTM F 1249 $g/m^{2}.24h.0, 1MPa$ $= 5.0$ $= 5.0$ permeability (max.) $= 23^{\circ}, 0\%$ r.h. $= 6m^{3}/m^{2}.24h.0, 1MPa$ $= 2200$ $= 1800$ $= 1300^{\circ}$ Dynamic coefficient of friction				
Itolerance         %         Image: Second se	40			
tolerance         Internal method         %         Just 25           Yield         method         method         method         S4.9         43.9         36.6         31.3           Tensile strength         MD (min.)         N/mm2         Image: Strength				
Yield         m²/kg         54,9         43,9         36,6         31,3           Tensile strength MD (min.]         N/mm²         I <thi< th="">         I         <th< td=""><td>36,4</td></th<></thi<>	36,4			
Tensile strength MD (min.) TD (min.)         DIN EN ISO 527-1/3         N/mm²         130           Elongation at break MD (max.) TD (max.)         527-1/3         %         200         5           Shrinkage MD (max.) TD (max.)         130°C, 15min 130°C, 15min         %         200         55           Water vapour permeability (max.)         ASTM F 1249 23°C, 85% r.h. 38°C.90% r.h.         g/m².24h         1,5         1,2         1,0         0,9           Oxygen permeability (max.)         DIN 53380 23°, 0% r.h.         cm³/m².24h.0,1MPa         2200         1800         1500         1300           Dynamic coefficient of friction - film/film         ASTM D 1894         -         0,15-0,25         0,15-0,25				
MD (min.) TD (min.)         DIN EN ISO 527-1/3         N/mm²         I30         I30           Elongation at break MD (max.) TD (max.)         Since in the inference infere	27,5			
TD (min.)         DIN EN ISO         Second S				
Elongation at break         527-1/3         %         200           MD (max.)         %         200         65           TD (max.)         130°C, 15min         %         55           Shrinkage         130°C, 15min         %         55           MD (max.)         130°C, 15min         %         55           TD (max.)         130°C, 15min         %         55           Water vapour         ASTM F 1249         3,5         3,5           Water vapour         ASTM F 1249         g/m².24h         1,5         1,2         1,0         0,9           38°C.90% r.h.         38°C.90% r.h.         g/m².24h.0,1MPa         1800         5,0         4,5           Oxygen permeability (max.)         DIN 53380         cm³/m².24h.0,1MPa         2200         1800         1300           0ynamic coefficient of friction - film/film         ASTM D 1894         -         0,15-0,25         0,15-0,25	130			
MD (max.)       MD (max.)       %       200         TD (max.)        65         Shrinkage       ASTM F 1249				
TD (max.)       Image				
Shrinkage MD (max.) TD (max.)         130°C, 15min         %         5           Water vapour permeability (max.)         ASTM F 1249				
MD (max.) TD (max.)       130°C, 15min       %       5         TD (max.)       ASTM F 1249       a       a       a       a         Water vapour       ASTM F 1249       g/m².24h       1,5       1,2       1,0       0,9         permeability (max.)       23°C, 85% r.h.       g/m².24h       1,5       1,2       1,0       0,9         S8°C.90% r.h.       38°C.90% r.h.       7,0       6,0       5,0       4,5         Oxygen permeability (max.)       DIN 53380       am³/m².24h.0,1MPa       2200       1800       1300         (max.)       23°, 0% r.h.       cm³/m².24h.0,1MPa       2200       1800       1300       1300         fmax.)       ASTM D 1894       -       -       0,15-0,25       0,15-0,25				
TD (max.)       ASTM F 1249       ASTM P 123° C, 85% r.h.       ASTM P 123° C, 85% r.h.       ASTM P 123° C, 90%				
Water vapour permeability (max.)         ASTM F 1249 23°C, 85% r.h. 38°C.90% r.h.         g/m².24h         1,5         1,2         1,0         0,9           Oxygen permeability (max.)         DIN 53380 23°, 0% r.h.         g/m².24h.0,1MPa         2200         1800         1500         1300           Dynamic coefficient of friction - film/film         ASTM D 1894         -         0,15 - 0,25				
permeability (max.)       23°C, 85% r.h. 38°C.90% r.h.       g/m².24h       1,5       1,2       1,0       0,9         Oxygen permeability (max.)       DIN 53380 23°, 0% r.h.       cm³/m².24h.0,1MPa       2200       1800       1500       1300         Dynamic coefficient of friction - film/film       ASTM D 1894       -       -       0,9       0,9				
38°C.90% r.h.         7,0         6,0         5,0         4,5           Oxygen permeability (max.)         DIN 53380 23°, 0% r.h.         cm³/m².24h.0,1MPa 2200         2200         1800         1500         1300           Dynamic coefficient of friction - film/film         ASTM D 1894         -         0,15 - 0,25				
Oxygen permeability (max.)         DIN 53380 23°, 0% r.h.         cm³/m².24h.0,1MPa         2200         1800         1500         1300           Dynamic coefficient of friction - film/film         ASTM D 1894         -         0,15 - 0,25	0,8			
(max.)       23°, 0% r.h.       cm³/m².24h.0,1MPa       2200       1800       1500       1300         Dynamic coefficient       0,15 - 0,25	4,0			
Imax.         23°, 0% r.h.         Imax.	1100			
of friction - film/film         ASTM D 1894         -         0,15 - 0,25	1100			
,				
untreated /untreated side				
,				
Seal temperature Internal method °C 105 - 140				
range				
Seal strength         120°C, 1,0s,         N/15 mm         2,0				
(min.) 0,3MPa	ε,υ			
Gloss (20°) (min.)         ASTM D 2457         %         90				
Haze (max.)         ASTM D 1003         %         1,6         1,8         2,0         2,2	2,4			
Surface tension (min.)         ASTM D 2578         mN/m         38				

\* After production \*\* After storage \*\*\* Typical values

# TATRAFAN 🗇 <sup>®</sup> KXLFE

### HEAT SEALABLE COEXTRUDED BOPP FILM WITH IMPROVED SLIP PROPERTIES

#### HANDLING AND STORAGE

The product does not present special safety requirements during handling and storage. In order to maintain their properties and to ensure good processability, the film should be stored avoiding high humidity and high temperature conditions. Do not exceed an ambient temperature of 40°C (transport temperature beetween (-20 + 30)°C and relative humidity of 80%. The product should be protect away from direct sunlight and heat (steam lines or other). Take measures against electrostatic discharges – the film will accumulate electrostatic charge of the web – it could by cause an electrical spark (ignition source). Keep away from source of ignition.

#### General notes:

Do not handle or store near an open flame, sources of the heat orignition. Store in cool, dry area, away from direct heat or sunlight (Film for food packaging applications keep away from hazardous chemicals). Film properties are guaranteed for 6 month from the date of production.



	Bobbin	
KXLFE	Core diameter (mm)	Outside diameter (mm)
20	76*; 76,8*; or 152*	
25		
30		Max. 780*
35		
40		
		* <b>O</b> L = = =

\*Standard

#### ENVIRONMENT

When disposed of under orderly conditions no environmental damage effects occur. During burning under free air conditions only CO2, CO and water arise. Does not contain additives based on heavy metals (Cd,PB,HG,Cr). This product is expected to persist.

#### OTHER INFORMATION

This information and recommendation is based on Terichem s best knowledge and belief accurate and reliable as of the date indicated.

However, no representation, waranty or guarantee is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user, therefor it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.



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