

PROVISIONAL

## TDQUS40TI

TRANSPARENT VERY LOW HEAT SEAL TEMPERATURE, HIGH HOT-TACK & ULTRA HIGH SEAL STRENGTH CORONA TREATED ONE SIDE FOR HIGH SPEED PACKAGING APPLICATIONS



Corona Treated Heat Seal Layer

OPP Core

Untreated Very Low SIT Heat Seal Layer



AVAILABLE  
CALIPERS

### DESCRIPTION

TDQUS40TI is transparent co-extruded **BOPP** film, one side very low seal initiation temperature (SIT ~ 85°C). It having Ultra High Heat Seal strength at untreated side. Especially designed for high speed packaging where its wide seal operating window can be used on high speed machines.

### PRODUCT FEATURES

- Wide sealing range with low seal initiation temperature (SIT ~ 85°C)
- Ultra High Heat Seal Strength (1500 gf/25mm)
- Excellent sealing properties in term of strength, hot-tack and integrity
- Good runnability on HFFS and VFFS machines
- Excellent seal integrity in presence of contaminants and humidity
- Good optical properties
- Good stiffness and mechanical properties
- Lap sealable

### APPLICATIONS

Can be used as a single web or laminate structures;

- Confectionary (Chocolate/ Gum/ Sugar)
- Health & beauty care
- Bakery (Biscuits/cookie/crackers)
- Frozen Food
- Household & detergent

### NOMENCLATURE

- TDQUS40TI - Corona treated surface is Inside & Untreated Ultra Heat seal surface is Outside  
 TDQUS40TO - Corona treated surface is Outside & Untreated Ultra Heat seal surface is Inside

**TOPPAN SPECIALITY FILMS**

PROVISIONAL

	PROPERTIES	REF.	TDQUS40TI	UNITS	TEST METHOD
GENERAL	Thickness	-	40	μ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	GSM	-	36.4	gm/m <sup>2</sup>	Internal Method
	Yield	-	27.5	m <sup>2</sup> /kg	Internal Method
OPTICAL	Haze	-	3.0	%	ASTM D 1003
	Gloss	-	90	GU	ASTM D 2457
SURFACE	Wetting Tension	-	38*	%	ASTM D 2578
	COF (Dynamic)	UT/UT	0.30	-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	MD TD	1300 2700	Kg/cm <sup>2</sup>	ASTM D 882
	Elongation (at break)	MD TD	200 60	%	ASTM D 882
	Modulus	MD TD	18000 28000	Kg/cm <sup>2</sup>	ASTM D 882
	Thermal Shrinkage	MD TD	4 2	%	ASTM D 1204
THERMAL	Heat seal range	-	85 - 145	°C	Internal Method
	Heat Seal Strength (1.0sec, 170N, 130°C)	-	1500	g/25mm	Internal Method

\*38 dyne/cm guaranteed for 6 months from the invoice date in controlled ambient condition as mentioned in storage guidelines.

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within three months of receipt. OPP films should be allowed to reach operating room temperature 24 hours before use.

FOOD CONTACT

OPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.’

SAFETY

Compliance with industrial health and safety standards. OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

CAUTIONS

- Film characteristics are maintained for six months from the date of invoicing
- Please make sure printing surface is well dried before lamination